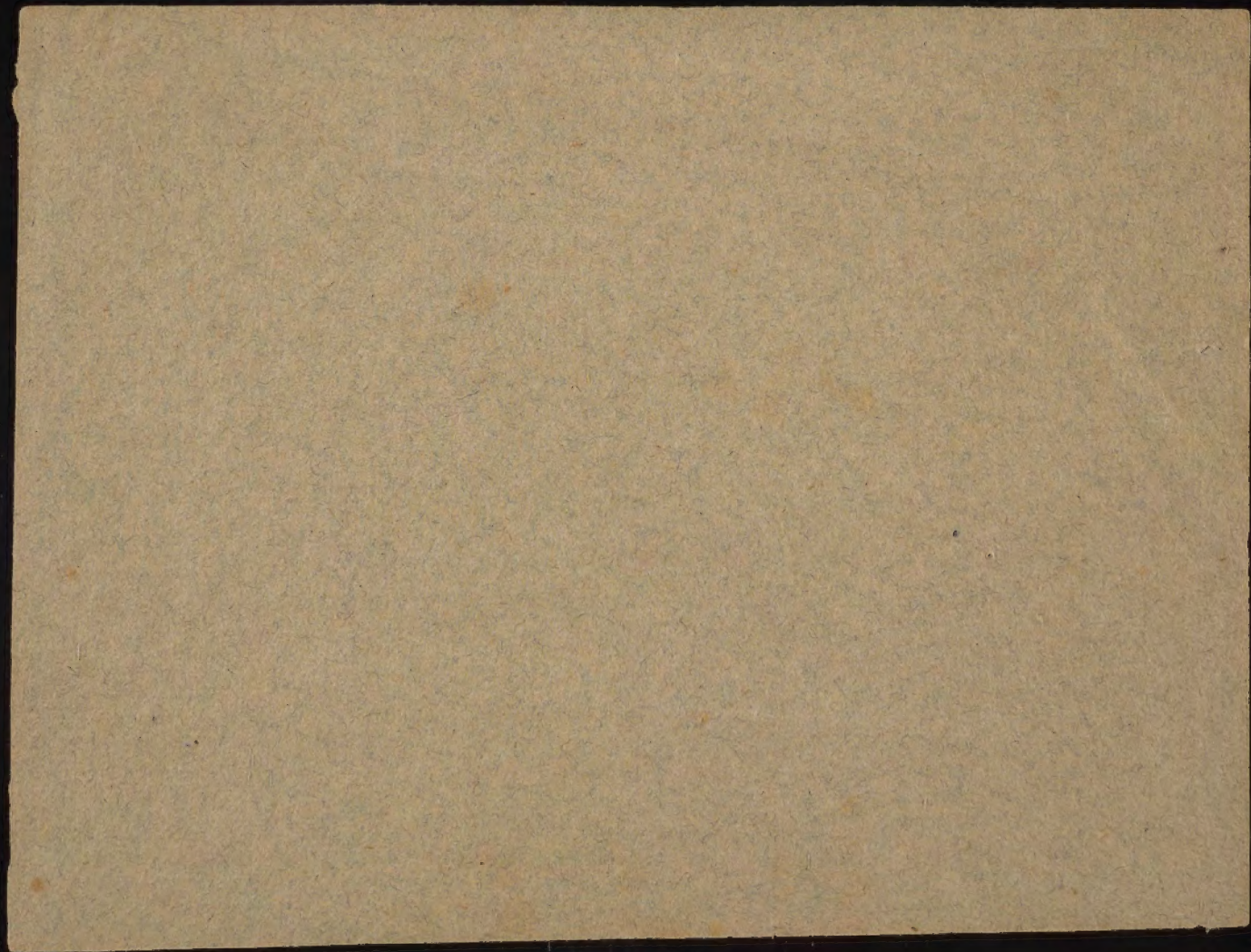


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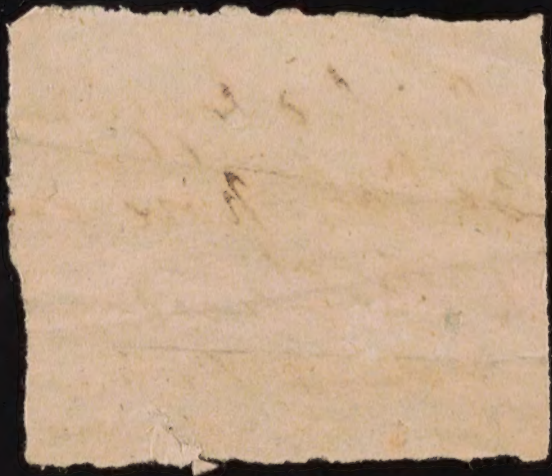
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Dr B. Rush's Manuscript
work on Hygiene —

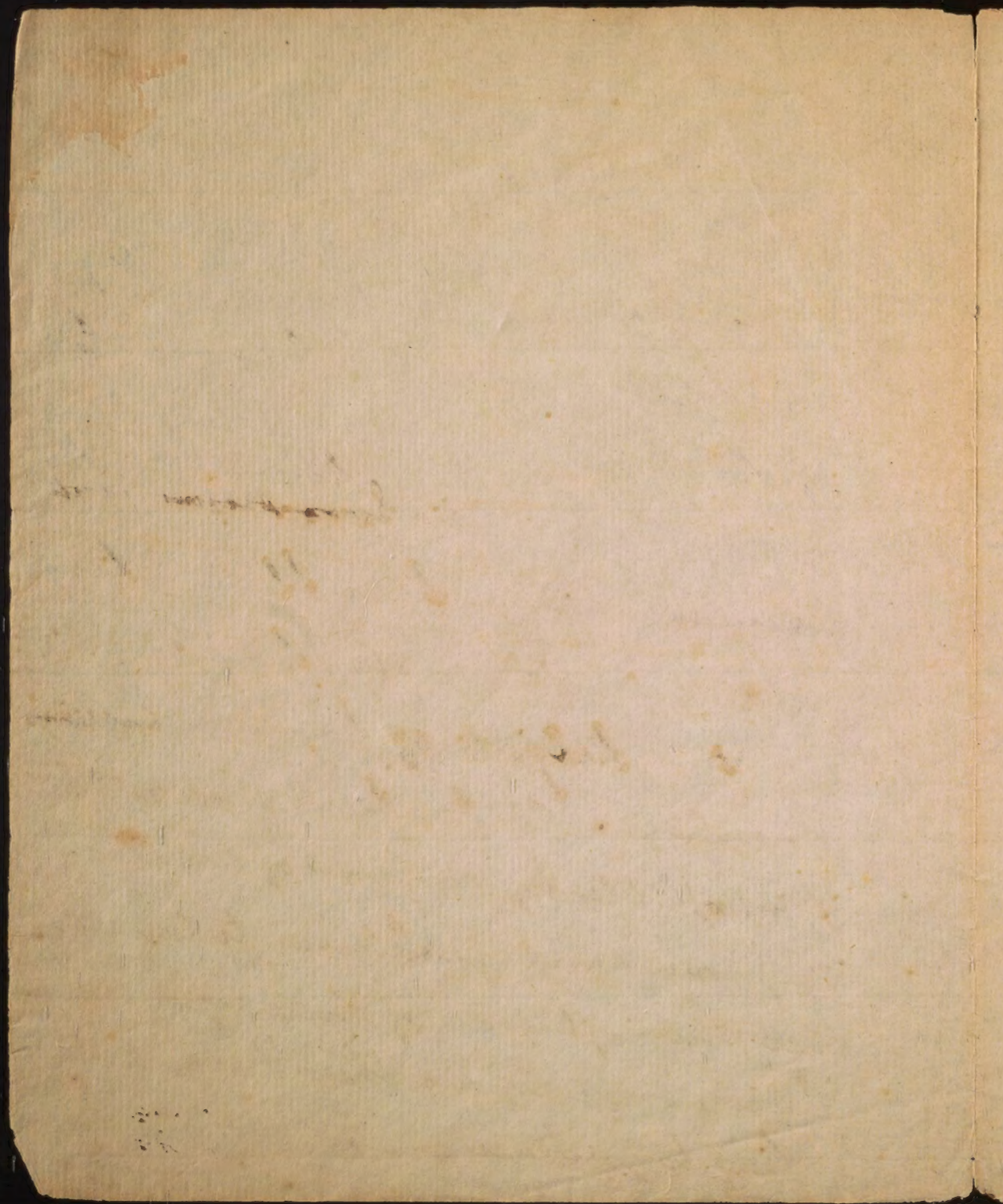
210



Finished Bygones
30th of Nov 12
1873. Tuesday
gave 4 lectures
on it stop at House.



1
Much has been written upon the
means of preserving ^{health} and prolonging
life in all Ages and Countries. The
Poets have added their labors to those
of the physicians and philosophers
upon this subject. ~~Even~~ ^{know and enthus-} ~~Before~~ ^{iasm} ~~poets~~
~~poets~~ have blended them-
selves with it, as they have done with
all other subjects of human ~~improvement~~
knowledge. It has been supposed that
it is possible by means of certain
improvements in science, to counter-
act the influence of time upon our
bodies, or to repair their decay, and
thus to produce an earthly immor-
tality.



will be unnecessary to contradict,
~~It would be a waste of time to contradict,~~
~~much less to spread a movement this~~
error. "Dust thou, and unto dust shalt
thou return" is the universal & perpe-
-tual sentence inflicted upon man &
from which there is no reprieve.
With ^{some} less violence to reason & revelation,
~~It has been supposed that~~ ^{it has} been supposed that
it is possible ~~by the same movement~~
~~in science to~~ by certain medicines,
or modes of living, to protract life to
the Antediluvian age. Paracelsus
a noted German Chemist ^{lignor} was the
author of this opinion. The Elixir
Proprietatis derives its name from its
being supposed to possess this power. Man-
ny remedies equally absurd have
been recommended for the ^{purpose of} ~~same~~

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher.]

protracting the ordinary limits of human life,
~~obtaining~~ ^{a diet consisting} ~~prospers~~, such as ~~bleeding~~ ^{in the}
 wholly of fruits, and other vegetables,
~~or of sweets~~, - the exclusive use of
 water as a drink, - bleeding in the
 spring of the year, and the transfusion
 of the blood of young animals into old
 ones. They have all been tried without
 effect. ^{Not a single subject has, by their}
~~Time (says Dr. Gilbert) is a mortal~~
~~means nor by other, any other~~
~~or any other means~~ escaped from the
 empire of death. "Time (says a celebrated
 french writer) is as eternal in perfor-
 -ming the business of destruction, as he-
 -lax is in the business of creation; nor
 can an anchor ever be thrown into
 the river of life so as to arrest for a
 moment our passage down its

overflowing stream." The common
extent of the ~~duration of the~~ human
life ^{is} from twenty to an hundred years.
Very few attain to the former of those
periods. One half who are born, die
under puberty, and according to some
calculations before the 8th year of life. This
premature mortality of the human race,
does not appear to be fixed by an irre-
versible decree of heaven. It ~~has been~~ ^{has been}
~~be prevented to a certain degree in many~~
countries, ^{to a} ~~and it may be prevented to a~~
certain degree, ~~in all countries~~ by the
combined ^{operation} ~~influence~~ of ~~our~~ physical
and moral influence upon the body
and mind, and where ^{this} ~~they~~ ~~have~~ failed of
producing the wished for result, it must



be ascribed to the neglect of all those ^{Diet} relative circumstances which influence ^{let,} climate, season, - age, - occupation, and the different states of society. But the ^{does} ~~benefits of the~~ science of health, ^{do} not extend barely to the prolongation of life. ^{It is} ~~They are~~ intended ^{not only to} to prevent those painful ^{or} ~~and~~ distressing chronic diseases which under life ^a ~~is~~ ^{chronic death, but,} ~~is~~ ^{reasonable, as it then} ~~is~~ ^{more} comfortable & pleasant to ^{make it} ~~we~~ ^{can} ~~enjoy~~ ^{its} ~~all~~ ^{its} ~~in~~ ^{its} ~~life~~ ^{while we do live.} ~~It~~ ^{It} ~~consists in~~ ^{the knowledge and application of certain} ~~rules for~~ ^{rules for} with respect to Aliments, Drinks, Air, Dress, exercise, the faculties of the mind, and the excretions of the body; ^{and} ~~and~~ ^{in diversifying} ~~no~~ ^{to} ~~take~~ ^{care} ~~to~~ ^{in diversifying} ~~diversify~~ ^{them} according to the relative circumstances which

✓ Begin with air - first stimulus
Senses of man. some remarks
on animal ^{life}, and of health depend-
ing on a due quantity of exercises.

have been just now mentioned. In
doing so ^{I shall} ~~the author~~ will endeavour never
to forget that ^{I am} ~~he is~~, writing chiefly for
the benefit of the ~~citizens~~ inhabitants
of the United States. v. Air

I shall begin ^{by commencing some} with the history of
general remarks upon ^{and upon the} ~~the history of~~
aliments and drinks, ^{and upon the} ~~and upon the~~
times and manner of taking them, ^{and} ~~and~~
~~affect health and life~~ and afterwards proceed
to take notice of certain properties of
such of them as are in common
use in our country.

[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]

I shall begin ~~with~~ by making
some remarks upon ^{the} ~~the~~ ~~Drinks~~ ~~in~~ ~~to~~ I shall confine
myself chiefly to those in use
in our Country. This part of
our Subject will consist chiefly
of facts; and ~~will contain but~~
~~little of that reasoning which~~
~~is so agreeable in will afford~~
~~you but I~~ will I fear be
considered as ^{more} ~~less~~ proper for a
kitchen than a room in a
University - but yet: the
Subject is highly important.
Now 1st ~~Aliments~~ ~~Drinks~~ ~~are~~
~~to~~ from their Qualities or Quantities

are the causes of many, very
many diseases. 2 our principal,
our most durable, & our most
^{agreeable}
~~useful~~ remedies are to be derived
from Aliments & Drinks. ^{What I}
It is certainly necessary for a physician
Aliments and Drinks are the
to be acquainted with this composition
principal subjects of conversation
of as of the medicines that are found in
at ~~most~~ ^{most} ~~of~~ ^{of} you will have
an apothecary. But 3rd ^{your}
a better lot in life than ~~most~~
physicians have
~~had~~ if you grasp this life ~~too~~ ^{it}.

without sitting down at every
table in which Aliments &
Drinks, or what is called good
eating & drinking" will not consti-
-tute the principal subject of
Conversation. ^{now} Without some
Knowledge of this subject you
~~will~~ ^{will} ~~cannot sit in silence, and~~

= be expected ^{of being} ~~from~~ you ignorant
of ~~many~~ other things supposed
to be more useful in your
profession.

✓ It is certainly as necessary
for a physician to be acquainted
with their Composition, as with
the Composition and Doses of
the Articles of Medicine that
are prepared in an Apothecaries
Shop. The most skilful, the
most popular & the most successful
physicians in all Countries
have been those who have been
most attentive to the Diet &
Drinks of their Patients. ~~This~~
~~Hyden has made his~~
~~this~~.

Dear Sir,
I have the honor to acknowledge
the receipt of your letter of the 10th inst.
and in reply to inform you that the same
has been forwarded to the proper authorities
for their consideration.

I am, Sir, very respectfully,
Your obedient servant,
J. H. [Name]

I am, Sir, very respectfully,
Your obedient servant,
J. H. [Name]

I am, Sir, very respectfully,
Your obedient servant,
J. H. [Name]

I am, Sir, very respectfully,
Your obedient servant,
J. H. [Name]

Before I proceed to mention the different
 kinds of ~~Alia~~ articles which constitute
 the food and drinks of man, it will be
~~proper~~ ^{proper} to take notice of an opinion
 of some modern philosophers who have
 taken great pains to describe the gradual
 manner in which man discovered
 under the influence of his reason, ~~only~~
 accident, the Aliments which were
 proper for his Support. They tell us he
 first fed upon the spontaneous berries
 and fruits of the earth, then upon roots
 accidentally discovered by openings in the
 earth, and lastly upon grains discovered
 in like manner by accident. They tell
 us further that he acquired his first ^{knowledge} ~~first~~
 relish for animal food from a priest



burning his fingers in turning a piece of
flesh while it was offering up as a
sacrifice upon an Altar, & then thrusting
his fingers into his mouth in order to
ease the pain of the burn. These opinions
are ~~as altogether~~ ^{absurd &} hypothetical, ^{as that} ~~as those~~
~~which supposes that man appeared~~
~~after which a new class in immediately~~
~~with the opinion of man having ad-~~
by gradual and accidental means, from a
Savage, to a civilized state. The course of
what has been taught in ~~both cases~~ is
appears to be alike true ^{in both cases.} & man was
created a civilized being, and the first
Communities of men were all civilized.
They ~~became~~ gradually become Savage from
the loss of Religion and letters. This ^{transi-} ~~transi-~~tion
from the civilized, to the Savage state, is

a note

+ The Indians in this country are of this
Opinion, and hence it is a common saying
among them, that "white men sooner
become red men than is Indians, than red
men become white!"

V the habits of civilized life, that he
subs upon the berries, fruits, and
• roots which spontaneously spring
up upon the earth.

easy, and common, and hence the
 early existence and immense number
 of savage nations in every part of the
 world. In like manner ~~all~~ ^{the} Diff:
~~erent kinds of~~ ^{Substances} ~~Aliments~~ ^{upon} ~~which~~
~~are~~ ^{feed} ~~constitute~~ the which men ~~have~~
 fed in civilized life, ~~were~~ appear to have
 been ~~possessed~~ ^{first} formed the Aliment of the
~~father~~ ^{first} ~~passage~~ of the human race. They
 were I believe pointed out to ~~them~~ ^{him} by
 the ~~means~~ of revelation, without ~~a~~
~~knowledge of them communicated in this~~
 which he would probably have perished
 by famine, or destroyed himself by
 unwholesome, or poisonous products of
 the earth. It is in his ^{departure} ~~only~~ ~~from~~ ~~the~~
~~earth.~~ ~~It appears probable~~ But

V It is no Objection to this Opinion
that some of the most important dis-
coveries in this Science, have been made
by accident, and not by the reasoning
~~where improvements in this~~

Science have ~~not~~ been derived from
accidents instead of the exercise of
~~the reasoning faculties of man, they~~
faculties of man; for what is
accident as applied to the subject before us;
~~accident this kind of accident; but~~
a Subordinate species of Revelation? A

+ See and insert from verse 24 to
29 of the 28 Chapter of Isaiah.

A We all admit a knowledge of the existence &
necessity of the Duty to be from Revelation. It
is I believe equally true that all the elements
or first principles of all our agricultural;
mechanical domestic knowledge, as also all our
forms of civil government were from the
same source. ^{When with the first was taught by his}
^{word to man the first hint of what he}
^{was word.}

It is ^{highly probable,}
~~Indisputable~~ further ^{that} the manner of
preparing his Aliment by means ^{of fire} to
as to make it more pleasant & nutritious
was communicated by revelations and
that without it, he and his posterity
would have been as deficient in the
knowledge of Cookery as the brute creation.

It is not unparry to suppose that
he was instructed in all the details of this
useful art. As the knowledge of the four
& twenty letters of the Alphabet ~~as~~ which
~~was it~~ has enabled men to compose
words and languages, so a knowledge of
a few primary articles of
the elements of the Aliment and of the
manner of preparing ^{them} has ^{led} to ^{many}
~~hundreds of discoveries upon~~ his many
^{additions and} hundred discoveries upon this subject. V

~~✓~~ ~~Habit~~

Man is the creature of habit with respect
to his food, as much as he is to ^{so} ~~his~~ ^{with respect}
to climate. As he was intended to live
in every part of the globe, he is happily
accommodated by the nature of his
appetite and ^{constitution} ~~disposition~~ to live upon
stimment varied ^{by its natural origin,}
preparation and mixture into an
immense variety of ways. Hence ^{he} while
has been called an omnivorous animal,
to distinguish him from those animals
that live exclusively ~~on~~ chiefly upon
flesh, grass ^{or} grain. There is no
^{vegetable} food of any beast, or bird but what
he has eaten, ~~and even preferred~~ such as are
~~rejected~~ rejected by other animals, have been

V prepared by him as articles of
nourishment.

VI hence there scarcely ^{exists} a bee quadruped,
a bird, fish, ~~reptile~~ insect,
worm or serpent that has not
furnished not only food, but a
luxury in some ~~age~~ or country
or age of the world.

6.2
✓

~~The flesh of the horse, the ass - the dog, and
many whole raw flesh and fish, the
blood of the goat have all com-
posed a part of the food of all many
different nations. Part of those articles
of food have been afforded him not only
in nourishment, but a feast in their
best state. Of this there are some
remarkable instances mentioned in the
transactions of the transactions of the
Society of Philadelphians which flourished
some years ago at [disposition] The
same Versatility of Appetite and Dis-
position to habit, appear in the facility
with which ~~one~~ ^{he} ~~species~~ ^{his taste} accommodates
to different kinds of ^{animal} ~~vegetable~~ food. ^{of}
this, history and travels furnish us~~

V pleasure and nourishment to the
the appetite and body of man when
taken without the least mixture
of any other article of diet.

with many remarkable instances. ^{influence of habit upon the} While
But it belongs to the ^{influence of habit upon the} appetite of man to
and constitution of man to desire
~~be gratified exclusively by~~ ^{a Diet}
impart pleasure and health from ^{not only}
~~trained~~ ^{or animal,} not only exclusively animal
~~or vegetable~~ ^{many} but from ^{single}

Articles in those Kingdoms of nature.
Of the former,
~~this has been~~ ^{these have been} travellers
~~tell us~~ ^{the flesh of the horse, the}
~~fish, - the flesh of the deer or~~
^{Rice - beans}
~~buffaloes~~ ^{and of the latter, fish, &}
~~dates - from Arabia, and even~~
^{the}
~~the flesh of the horse, the pig, the deer and~~
~~of the pig~~ ^{all}
~~the buffaloes have~~ ^{afforded} ~~not only~~ ^{all}

However powerfully habit may act
in those cases in perverting the original
instincts of nature, and substituting an
artificial appetite in their room, there
can be ^{no} doubt but ^{that} ~~that man was~~

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~~intended to live and upon some aliments~~
~~are more calculated to afford pleasure &~~
~~health to man than others, and that~~
man
^{is} was intended to live upon a mixture
of ~~the~~ Vegetables and Animals ~~and~~ food,
and that certain articles of both were
selected in a more peculiar manner
for his use, as being more easily
obtained, and more calculated to afford
~~pleasure~~ him pleasure & health than
Others. —

That man was designed to live
upon ^{a mixture of} Vegetables and Animal food is
obvious, 1 from ^{his} instinctive relish for them.
2 from the structure of his teeth, and of
his alimentary canal, both of which
are formed upon the compound prin-
-ciples of Granivorous & Carnivorous

§ V From the greater health, strength
and longevity of individuals, ^{and nations} who live
upon a mixture of vegetable and
animal food.

4

animals.

but one
 of them a diet consisting of ~~either~~ ^{one} of
 them producing ~~but~~ ^{being} ~~being~~ ^{life} friendly
 to health, and longevity. ~~than a diet~~ of
 this it would be easy to produce many
 proofs. ~~the~~ ^{vegetable} ~~and~~ ^{aliments}

alone disposes to ^{& bowels} ~~stomach~~ complaints, &
 to the diseases which arise from a want of
 off ~~exposed to~~ ^{any} ~~diseases which arise~~
 strength proportioned to labor,
 from a want of ~~strength~~, & to premature

old age and death, while
 a diet consisting ex-
 -clusively of animal food, disposes to
 malignant fevers - Scurvy, and eruptions

on the skin, and V

5th ^{kind} Lastly, it is obvious from these suggestions
 of reason and experience in favor of
 a diet consisting of a mixture of vegetable
 and animal food are ^{sanctioned by} ~~sanctioned by~~
~~positive~~ ^{as} ~~commands~~ ^{as}
~~positive~~ ^{as} ~~commands~~ ^{as}

One of the ^{of} the final causes probably was,
had man lived on vegetables
only, it would have acquired
~~more~~ a greater quantity
& longer time to fill his belly
than was compatible

with his duties in life. ^{His} ~~It was~~
~~appetite for flesh~~ ^{the further purpose of}
~~to keep the number of animals.~~

+ This is the case with all herbivorous
animals -

well as by the
~~the old and new testament and by the~~
examples of ~~the~~ all the wise and good
men whose lives ~~and~~ are recorded
in ~~these~~ the old & new testaments. ✓

Let it not be supposed there is any
cruelty in ~~these~~ the Governor of the
world in permitting the life of one
animal to be supported by the death
of another. The command "to slay &
eat" like every other ^{Divine} command is the
effect of overflowing goodness, for by
the ~~death~~ constant destruction of every
animal that supplies us with ^{many} food
room is given for the existence of
more ^{that} ~~who~~ come forward & partake of
the blessing of life. It is by this means
that the various species of animals have
been preserved alive to this day, for had

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not their increase been ^{limited} ~~before~~ by their
 partial Destruction, they must all have
 perished in consequence of the present
~~imperfect cultivation~~ ^{to scanty productions} of the earth, from
 the want of Subsistence long ago. If all
 the Domestic Animals alone which
 have existed within the last hundred
 years are taken into Consideration, the
 number of them almost exceeds calcula-
 -tion, and yet no one of these would
 ever have seen the sun, or partaken of
 those animal pleasures which they
 probably enjoy in a much higher
 degree than the human species, ^{and} ~~and~~
 which constitute with them a degree of
 happiness proportioned to the absence of
 other pleasures. Unless the Ancestors of

V ^{its nature,} Stranger to ~~the nature~~ its fear
D and Consequences, and of course
to its fear; ~~an~~

those animals ~~have~~ had composed a
part of the food of man. But further,
the destruction of animals by the knife,
or in any other way, prevents death from
disease. It likewise prevents their
suffering the miseries of old
age, for in that ^{feeble and} helpless stage of life,
they can have no ^{aid} help, nor support
like the ~~centauroan~~ ^{human} species
from affectionate and interested rela-
tives and friends. From their ^{inability} ignorance
however, they are ~~strangers to the fear~~
~~of death~~. They are ~~probably ignorant~~
~~of its nature~~, hence the ~~more~~ ^{aged} ~~from~~
their ~~inability~~ to draw inferences from
the death of other animals so as to apply
it to themselves. ^{They are probably ignorant of its nature} ~~hence~~ the ~~more~~ ^{harm} which
is ~~caused~~ ^{to} ~~more~~ ^{than any other} frequently to death from
the number of its enemies is the

V It is from this ~~want~~ ^{means or instinct} of inability to remember the ~~circumstances~~ ^{which} produce of death in ~~other~~ ^{other} animals, ~~that they~~ ^{do not} ~~out of the world~~ that they ~~never~~ destroy themselves. Under all their complicated sufferings from the neglect and cruelty of man, they never resort to suicide for deliverance from them, ~~to the crime~~ ^{of suicide}.

VI That we seldom tread upon the earth after a shower of rain, or inhale the air, or swallow certain liquids without destroying the lives of many of them, ~~how~~ ^{how} of ~~guilt~~ ^{guilt} to all of ~~whom~~ ^{life is} ~~probably~~ ^{as precious and as full of} ~~more~~ ^{more} ~~pleasure~~ ^{pleasure} ~~than~~ ^{than} ~~the~~ ^{the} ~~domestic animals~~ ^{domestic animals} that are the objects of our misplaced compassion.

most playful of all animals. The
 lamb too from the same cause, is
 " — pleased to the last, ^{he} ^{his} ^{food,} ^{cropping}
 " and licks the hand just raised to shed ^{his} ^{blood.} Even while animals are dying,
 it is probable they are not conscious
 that their ~~prolonged~~ loss of blood is a
 previous step to the loss of their existence.
 They in most cases I believe ^{death} ^{it} ^{creeps}
 upon them with the gentleness, and
 perhaps with the pleasant sensations
 of sleep. —
 were it necessary to ^{oppose any more} ~~urge further~~ arguments
 to the mass, and mark the insensibility of mind
 which object to taking away the life of ~~an~~
 innocent animal in order to gratify the appe-
 tite, and nourish our bodies, it might be
 added that we live perpetually in a constant state
 of war with thousands of animals, and a

V This Stimulus acts by its weight, ^{or} by distending
the stomach, ~~and~~ or by its ~~an~~ ~~acid~~ active or
pungent quality inherent in it in which case it
~~to~~ ~~and~~ ² by the facility, or difficulty with
which ² it is the medium of the organ of taste. ²
which they are digested, and the prompt
or gradual manner in which they
yield their nourishing matter to the
body. It is,

~~to~~ It is not necessary for Aliments to
digest speedily in order to support ~~the~~
strength and life. On the contrary there
are cases to be mentioned hereafter in
which Aliments should be prepared from
~~the slow~~ ^{their} ~~its~~ difficulty of digestion, and
the slow manner in which they pass
out of the stomach.

11 Leger occupies the first grade in this
Scale of nourishing matter - vit the next,
and mucilage the lowest. Aliments =

support animal life
 Aliments of all kinds ~~act in three ways~~
 in the following ^{1 Directly by} Ways. ~~By~~ their Stimulus
 independantly of their nourishing Qualities,
 imparted to the whole System through the
 medium of ~~the organ of taste & the stomach.~~

~~2 Indirectly by~~
 2 ~~By~~ the quantity of nourishment they
 contain, and by the greater or less facility
 with which this nourishment is extracted
 from Aliment ~~and~~ by the powers of the
 Stomach, and converted into animal matter.

All ~~all~~ Aliments of ~~are~~ ^{denial their} nourishing ^{Qualities} ~~improper~~
~~from their containing more or less of the~~ Substances
~~line to the quantity of the following matter~~
 Substances contained in them. ~~and in the order in~~

which they are mentioned. Sugarabil
 & gelatin, ^{gluten - starch - gum - and} ~~the albumen & mucilage.~~ ^W
 are said to contain in addition to those
 substances calcareous earth & ~~some~~ Carbon
 each of which it is said contributes in

~~V Scale of combining matter & oil the~~
~~note~~

V They contain likewise and an alka-
-line & muriatic salts - a principle of
acidity and putrefaction and a quantity
of air, ~~what~~ from which

in certain degree to form their nourishing
are all the [✓] ~~that~~ ^{Sugar occupies the first grade in this} ~~the order of in which they~~
ought to be placed is not known.

~~It will be impossible to classify them~~
The stimulating - nourishing, ^{the} di-
gestible ^{indigestible} qualities of Aliments
or so much influenced by this mode
of preparation, or by ~~the~~ ^{the} age, and ^{the} state
of the stomach of the persons who feed
upon them, that it will be impossible
to class them, in giving a history of their
relative fitness for the support of animal
life. - ~~The~~ ^{the} ~~food~~ ^{Aliments} ~~which act by~~
~~their characters~~ ^{impacts} I shall therefore
occasionally mention all, or a part of this
by the terms that have been mentioned,
Qualities, and apply them to circumstances,
to the ^{the} ~~and~~ ages and ~~habits~~ ^{constitutions} of diffe-
rent classes of people. -

✓ and which induces in it what
has been called the panerous fermenta-
-tion.

The vegetables which constitute the
nourishment of man have been divided
into grains - roots - seeds - ~~fruits~~ ^{into fruits} - potables
and salads. —

The grains most commonly employed
as aliment in the United States are wheat,
Rye - ^{Indian corn, Rice} Barley - ~~Wheat~~ - and Oats.

Wheat is used chiefly in the form of
biscuit and bread. The former requires
more mastication than the latter, by
which means it ^{is not only more divided, but} carries more of the
saliva into the stomach and thereby
facilitates its digestion. It imparts more
strength to the body than leavened bread.

Bread is made with flour and water,
leavened by means of ^{fixed} air conveyed into
them from yeast, or any other matter
that contains it, — It contains a

My dear Mother

I have just received your letter of the 10th inst. and am glad to hear from you. I am well and hope these few lines will find you the same.

I have not much news to write at present. I am still in the same place and doing the same work. I hope to hear from you soon.

I am, dear Mother, ever your affectionate son.

Yours truly,
John Smith

great quantity of glutinous matter upon which its nourishing qualities chiefly depend. It is most wholesome when taken cold. Fresh or hot bread, is ~~more~~ difficult of digestion, and according to Linnaeus is injurious to the teeth.

It is sometimes made with milk instead of water, and eggs, sugar, honey and butter are occasionally added to the flour of which it is composed, but all these additions detract more or less from its wholesome qualities as a daily article of food. That bread is best, which is ~~not too much baked~~, that made of full ripe wheat - that of fresh flower - that is ~~not~~ sufficiently

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elevated, or fermented - that is well baked,
that is neither moist, nor dry, and
that has neither a sour nor taste, nor
smell.

Rye affords a bread, less disposed to become
dry than wheat, very nourishing, and
disposed to move the bowels gently, especially
when it is not very finely bolted. A
pleasant bread is made of equal parts
of Rye and wheat flour. ~~The~~ Rye
flour when boiled with water forms
an excellent Aliment called mush which
is ^{both salutary} ~~pleasant~~ and agreeable to invalids
~~be~~ taken with milk, or with a little
butter and sugar, or molasses.

Indian Corn is a wholesome & very
nutritious grain. It is used when green,
~~in the form of~~ ^{roasted or} boiled, upon the Cob, or grated

Adapted from the original manuscript of the
first edition of the book, and is
now published in a new form.

A large offering of books, the most
of the best, and of the most
interesting to the public, is
now in the hands of the
publishers, and is
for sale at a very low
price. The books are
of the most
valuable and
interesting
nature, and
are
for sale at a
very low
price.

very fine, and baked with cream or
 milk into a pudding, and afterwards
 mixed with a little butter & salt. The
 Indians in this country mix equal parts
 of the green Indian corn dried by means
 of heat, and maple sugar together, and
 in which state they preserve it for
 years. ~~They eat it~~ ^{generally eat it} ~~prepare it for~~
~~food by boiling it in water, but~~ ^{food by boiling it in water, but}
~~cold water when they go to war, and~~ ^{but}
~~at home they boil it~~ ^{they mix it with}
 cold water, and use it ~~as a liquid~~ as
 a drink. —

Indian corn is ^{prepared} ~~used~~ likewise ^{for}
~~in the form~~ food by having its husk
 taken from it & ~~in which state it is~~ ^{with}
~~called~~ and afterwards boiled ^{in milk or} ~~with~~
 meat. In this state it is called Hommony.
 It is called small hommony when the

✓ a light and ^{wholesome} ~~pleasant~~ ^{for invalids} gruel is ob-
-tained ^{by} boiling the flinty part of
the corn in water, and afterwards
straining it, and making it pleasantly
~~a mixture~~ with adding to it
a little sugar or wine, or lime juice.

It is less nourishing ~~than~~ the
farine of the corn. Excellent ~~but~~

~~Stibula for Buck whea~~ cakes resembling
in their appearance Buck wheat cakes,
but of a more nourishing quality are
made by mixing four parts of Indian
flour with one of wheat flour, and ad-
-ding a little yeast to them in order to
raise or lighten them. They are
afterwards baked, and eaten like buck-
-wheat cakes.

grains of corn are broken in preparing
it. It is further, ~~made into~~ when
reduced to a fine powder ~~made into~~ ^{mush} what
is called Poine - Johnny Cake, and a
pudding, ~~that~~ all which prove
an agreeable & wholesome aliment.
Persons who feed upon this grain in
any of the ways it is in which it is prepar-
ed are capable of ~~great labor~~ ^{greater} ~~persons who live~~
business in labor than ~~from the~~
^{upon} ~~use of~~ any other grain. An excellent
~~Rice is a simple and pleasant~~
bread is made of equal parts of wheat
and Indian corn flour. It retains its
moisture longer than wheat bread
alone, and it is gently opening to the
bowels. — V

✓ It is much improved by previously
grinding the rice into a coarse powder.

from hard crust to paste.

nourishing grain.
 Rice is a wholesome & agreeable ~~aliment~~.
 Whole nations live upon it. & ~~it is~~
 when boiled in milk, it forms ^a
~~used in the in puddings, and boiled with~~
 pleasant aliment for children. It
 makes an agreeable pudding when
 mixed with milk and eggs. Raisins
 are sometimes added to this pudding,
 but a handful of dried peaches imparts
 a more ~~agreeable~~ pleasant taste to it.
 It is sometimes ~~used~~ boiled & used in
 its simple state, ~~instead of~~ with meat
 instead of bread. It forms a useful
 ingredient in broth, and ~~it is~~ a pleasant
 drink for sick people labouring under
 relaxed bowels when boiled in water. It
 is rendered more useful for this purpose when moderately
~~There is~~ ~~the~~ the grains of Rice
 roasted.
 are sometimes reduced to a fine powder

V a pleasant bread may be made of
Rice by ~~and~~ mixing it with potatoes,
or by adding a 5th part of wheat
flour to it. The latter addition
with a little yeast forms a cake
superior ~~when~~ eaten with butter
to the Buck wheat cake.

by first boiling them, and then pouring
off the water in which they are boiled, &
afterwards placing the vessel well covered
over a slow fire. The small portion of
water which they retain is by this
means ~~converted~~ ^{converted} into Vapor,
which divides and ^{pulverizes} ~~reduces~~ the grain to
~~a fine~~ ^{it is} In this state, eaten with
milk, or with a little butter & sugar.

✓
~~Barley is nearly used~~ There is not the
least foundation for the opinion that
Rice is injurious to the eye sight.

Barley is seldom used in bread. It is a
pleasant ingredient in broth: ~~whether whole,~~
~~or beat~~ Its use ~~not~~ in making beer shall
be mentioned hereafter.

Oats is used in this Country as a ~~stimulant~~
for sick people only, [&] in the form of
gruel, ~~It is the lightest~~ ^{easy} of digestion

The meal of ^{in this country}
✓ Buck wheat is used _n only in cakes
with butter. It is in this form
and moderately nourishing, and
when not overloaded with butter
easy of digestion. em Barrow
says the Chinese ^{make use of} ~~make~~ a paste from
prepared from it which is as white
as snow.

It is happily suited for this purpose from its being easy of digestion & affording but little nourishment. When infused in water and suffered to stand still it becomes soups, and then strained and evaporated, the residuum forms that Aliment which is called Soups. It is cooking, and pleasant eaten with milk, or with sugar and butter. V

The Roots most commonly in use as Aliments in the United States are potatoes, ^{the} turnips, Carrot, Parsnips - Beet and Onions.

The potatoe contains ^{in a given quantity} one third of the nutritious matter of wheat bread, ^{in a given quantity} of each of them. It is mild pleasant and wholesome vegetable. It is eaten boiled, and roasted; ~~whereas~~ ^{It im-}proves ~~the taste and~~ ^{the} wholesome qualities of wheat, ~~bread~~, ^{whether made into bread or cakes,} and renders the paste

✓ The potatoe may be preserved in
long Voyages and in hot climates by
being previously heated in an oven
to such a degree ~~only~~ as to destroy
its principle of Vegetation. When
sliced, and cut into small pieces
and eaten raw, with Vinegar, it has
been found an effectual remedy in
curing the Scurvy. ^{The Indian or small potatoe} ~~For another prepⁿ~~
of it - see p: 249 of Common place Book
1809. It makes a pleasant soup when
3 parts of it are boiled with one of Onions
and a little bread. It must afterwards be

an apple
of a Dumblin or pudding, when mixed
with an equal quantity of wheat
flour, ~~light~~, spongy, light, and
easy of digestion. Sir John Lincolns
directs them to be prepared for food by
being first half boiled, and then roasted,
or by being first scraped so as to open
a communication through parts of the
skin and the external air, then boiled in
a little less water than will cover them,
and afterwards exposed to a gentle heat
until ~~they are completely~~ all the moisture
~~they~~ was evaporated from them. He
directs further ^{and for an obvious reason,} that potatoes of the same
size only should be boiled together. V

Turnips are less nourishing than
the potatoes, but when roasted or boiled

✓ They are deprived ~~by~~ of their bitter
taste by first ~~boiling~~ infusing them
for two or three hours in cold water,
and pouring away a larger portion of
the skin that is ^{done} ~~commonly~~ in the
ordinary way of ~~drying~~ cooking them

~~Strained and eaten with a little ~~hardt~~
bread after being first made savory
with a little salt.~~

Constitute an agreeable & wholesome Aliment.

Parsnips Carrots & beets contain more ~~nutrient~~ nutrient than the potatoe or the turnip in a given quantity. This has been decided by an experiment with respect to two of those vegetables. Two pigs of the same age were weighed on a certain day. The one was fed upon parsnips, and the other upon potatoes. At the end of a month, the one that was fed upon parsnips had gained several ounces more of weight than the one that was fed upon potatoes. [all the roots mentioned under this head require the long application of heat to render them easy of digestion.] The parsnip is much improved in its taste, and wholesome qualities by being placed a few

the addition of salt or
savory ley, boiling a piece of salted
meat in them. Their consistence may
be varied by the greater or less quantity
of water in which they are boiled.
A piece of soft bread ^{boiled in them} renders them more
~~placid~~ grateful to some stomachs &
helps to give them the consistence of
soups. They are eaten with ^{bread} Day bread.
They are rendered more nourishing by a
~~little some~~ a little butter ~~may~~
being ~~be~~ thrown into them, or ^{an} egg
well beaten up ⁱⁿ the water ~~the~~ boiled in them.

minutes in a frying pan or upon a grid-
-iron over a hot fire, after it is sufficiently
boiled.

Onions ~~belong alike to the roots~~ afford
but a moderate portion of nourishment,
but by their Chineries they impart strength
to the body. They are excellent articles of
Diet for Labourers. ^{from the longer} ~~and are by~~ their long
operation of ^{they upon the body, they are}
-al Qualities ~~they are~~ ^{for} preferable
to Spirits which are too often resorted
to by that class of people. They constitute
-ed a principal part of the Aliment of
the Children of Israel while they dwelt
in the hot and enervating Climate of
Egypt. They form a necessary part of all
the vegetable Soups. One 3^d of Onions imparts
to potatoes ^{Barley} ~~in~~ ⁱⁿ Mash - Pease - Beans &c the flavor
of animal broths. ~~It is rendered still more~~

W The disagreeable smell which the
asparagus imparts to the Urine, &
which is an objection in some people
to eating it, is completely obviated
by taking a pill or two of ~~solid~~^{what}
~~are called the tears of~~
~~trigeminine~~ ~~after~~ ~~it~~. which come
from pine boards when exposed to
the heat of the sun. A few drops of
the spirit of turpentine would answer the same purpose.

V Whole nations have made them a
principal part of their food. It is was
a common article of diet among the
Jews. The Romans were much attached
to them. The Chinese make a bread of
them by first pounding or grinding them,
and then ~~mixing~~^{steering} ~~the coarse powder~~^{them}
~~obtained~~ with water. The water is poured
off while impregnated with the powder of
the beans, and ~~when~~ suffered to stand till
it deposits this powder. The water is =

~~of the seeds~~ Peas ^{compose} beans ~~constitute~~ the
 principal classes of aliments that are
 taken from the seeds. [They require to be
 well boiled in order to be nourishing, and
 easy of digestion.] The pea when dried in
 its and preserved in its green state retains
 during the Autumn & Winter a good deal
 of its pleasant taste. When boiled in
^{& water} milk with a little flower, ^{& salt} and a slice of
 bread ^{it} forms an agreeable vegetable-
 broth. ^{In its dry state:} ~~When dried,~~ it is an excellent
 ingredient in soup. The different kinds of
 Beans are used in the same way [&]

~~The preparation of~~
 of the pot-herbs, Spinach, - Asparagus, - ^{& and} ~~the~~
 the different kinds of Cabbage, are chiefly em-
 -ployed as articles of diet in the United States.
~~The last is offensive to the stomach~~ It is to

= then poured off, and the ^{spicent} ~~water~~ when
dry is seasoned ~~with~~ with a little salt,
and cut and eaten as bread.

~~All the vegetables that have been mentioned~~
~~and easy of digestion in food should be well~~
~~boiled in~~ There has been a good deal of contro-
versy upon the manner of preparing all the
vegetables that have been mentioned for the
table. It may be settled in a few words. When
vegetables are well boiled they are most easily digested, and of
course are most fit in that state for persons
who lead sedentary or easy lives. But I think
they partake of the action of the fire, the
less easily they are digested, and of course the
more fit they are for men who labor for
their subsistence. By lying long in the stomach
they stimulate the whole body & keep off hunger.
Half baked bread is often eaten by the peasants
in Russia, and half boiled potatoes are eaten
by the ^{poor} people of Ireland for this purpose.
The Germans imitate ~~this~~ this practice in

^{Cabbage}
he regretted that ~~that~~ ^{it} which is so gene-
rally agreeable to the taste, is so often of-
fensive to the Stomach. It is best so
when it is raised in poor ground, and
after it has been exposed ~~a few weeks~~ to
the frosts of November or December. ~~It has~~

Its offensive qualities to the Stomach are like-
wise much lessened by boiling it by itself for
a short time, or by suffering it to infuse
for ~~two or three~~ twelve or fifteen hours in water
a little below the boiling point. There is a
wholesome Aliment prepared from Cabbage
called Sauer-Craut. ^{add how prepared also -}
prepared by salt & drying &c.

= feeding their horses & cattle. When they wish to fatten them, they ~~give~~ boil the roots & grain they give them, but when they wish to derive the greatest advantage from their labor, they give both in a crude ^{or raw state.}

~~It is~~ ~~They have~~ been divided into such as are acid - as the ^{Currant} ~~lemon~~ - the Citron & into such contain a mixture of saccharine matter

with an acid as the Orange, the Apple, the Pear and the Peach - the Plum ~~the~~ Cherry - the Hawtherry - the Grape, the Strawberry - the Gooseberry &

They are acid as the ^{Lemon &} Currant; ~~and lemon~~ ^{oranges, apples &} sweet as the certain kinds of plums;

a compound of acid, and ^{saccharine} ~~sugar~~ matter as the Cherry & the Hawtherry;

a compound of saccharine matter & water as the melon; - a compound of saccharine and astringent matter

as the quince & the persimmon, and oily as the ^{almond - the Cocoa - and} Walnut, ~~the~~ hickory nut,

~~and~~ They are all various in proportion to the quantity of sugar ^{& oil} they contain.

The fruits of the States abound with most
 of the fruits of ^{all the climates in the} ~~middle and southern~~
 world. From the profusion of other

Fruits ~~they~~ are used chiefly as Ar-
 timents.

-icles of luxury in the United States.
~~They abound in Satharine matters, and contain~~
~~when perfectly ripe, and not kept till~~
~~a good deal of emolument.~~
~~perfection begins in these. They are~~

~~moderately nourishing, and~~ when
 taken in moderate quantities they do
 not disorder the stomach or bowels. To
 ascribe to any part of them the
 diseases of summer or autumn when
 taken perfectly ripe, and in a sound
 state, is as absurd as to ascribe the
 yellow fever, to the ships which arrive
 from the West Indies in our

The Strawberry requires Sugar,
The ~~Some~~ Some of the melons require
pepper and salt, and the Cucumber
requires pepper, salt, ^{Vinegar} and Oil to render
them agreeable to the Appetite, and easy
of Digestion.

Should be eaten before Dinner

Some of them retain ~~what~~ of their
flavour when preserved in Sugar
and Spirits, as the Strawberry, and
the peach, while others of

filthy harbours in the months of August
and September. The Coincidence of Disease
~~these~~ ^{these} supposed Causes, is ~~attributed~~
with ~~the~~ ^{these} ~~fruits~~ and the arrival of
~~this~~ is accidental in both Cases. Instead
of abstaining from ~~these~~ ^{fruits} ~~or~~ ~~unwholesome~~,
~~they should be taken~~ from a dread of their
creating Diseases, they should be taken to
prevent them. They obtain acid life,
and discharge it gently from the bowels,
and thus lessen the heat of the body in
summer. ^{the fruits} ~~They~~ Some of ~~these~~ retain
their qualities when Dried. This is the
Case with the Apple and the Peach. ^a ~~from~~
~~of~~ them afford a Juice from which wine
is obtained. ~~this~~ The Currant & the Rhesus,
are best used for this purpose, while
Others the acid and sweet fruits are rendered
less fermentable by being baked, or by
being ~~by~~ ^{by} being mixed with milk-cream
or sugar, or ~~wine~~ ^{old wine}.

~~Handwritten text, mostly illegible due to fading and bleed-through. The text appears to be a letter or a journal entry, with several lines crossed out. The handwriting is cursive and somewhat slanted. The page is aged and yellowed.~~

likewise
 The Salads are rather articles of luxury
 than of Aliment. ~~The common Salads,~~
 they ^{do not require} ~~are common~~ ^{are not subjected to}
 the action of fire before ^{common} they to render
 them agreeable. The Salads endive, ~~the~~
 Dandelion, ^{etc} cold ^a Slaw, and Fennel belong
 to this class of substances employed in
 diet. They require certain additions as
 vinegar, pepper, and mustard to render
 them palatable and stimulating to the stomach.
^{They contain but little nourishment.}
 Have the profusion of the Art Vegetables.
 - ble Aliments in our Country that have
 been mentioned Orts are seldom employed
 as Articles of diet. The Walnut - the
 hazel nut - the ^{almond} - the filbert,
^{the} heavy nut, or shell bark & the
 Chestnut compose a part of the Diet,
 after our meals. They are ~~are~~ too

✓ Chocolate forms a pleasant nourish-
ment either boiled in water, or
eaten by itself. ~~which~~ The almonds
~~as with the~~ ~~afford~~ when blanched, that is
deprived of their ~~bit~~ skin ^{by being infused in hot water,} - then bruised
with loaf sugar and mixed with warm
water, afford that pleasant bland liquor
called almond milk, which has often
been prescribed with success in pulmonary
consumption. It may be used as a sub-
stitute for cream, or milk with lead
Coffee. ~~etc.~~

nourishing to be taken in large quantities
in this way. ^{One half of} ~~From a single~~ ^{nut} ~~hickory,~~
^{squeezed between two pieces of hot linen,}
I once obtained thirty Drops of Oil; now
Oil we know occupies the second grade in
the Articles ~~of~~ which afford nourishment
to the body. The Chestnut when dried, makes
an excellent ingredient in Soup. When
eaten soon after they fall from the tree they
are said to affect the head. ~~with~~ Dr Cabanis
says a priest in France informed him,
that the members of his parish were
instructed with more difficulty at the
time they fed upon raw and ~~newly~~
collected Chestnuts than at any other time.
Dr Hoffman has remarked that Dysenteries
are most common where people feed chiefly
upon Nuts. The Cocoa ~~or~~ when mixed with
flower, ^{all these or sugar} ~~and~~ butter into what is called V
a

This paper is now in the hands of the
 Government and is being used for the purpose of
 the same.

Arise

v or terrestrial - Aquatic - & amphibious
 animals,
 = one also Insular & domestic.

...the Gulf of Mexico ...

to the lady. The character of the

... is a ...

1840

[Faint handwritten notes at the bottom of the page]

1890

It is the intention of the author to publish a second volume of the series, which will contain the history of the Republic of the United States, from the year 1789 to the present time.

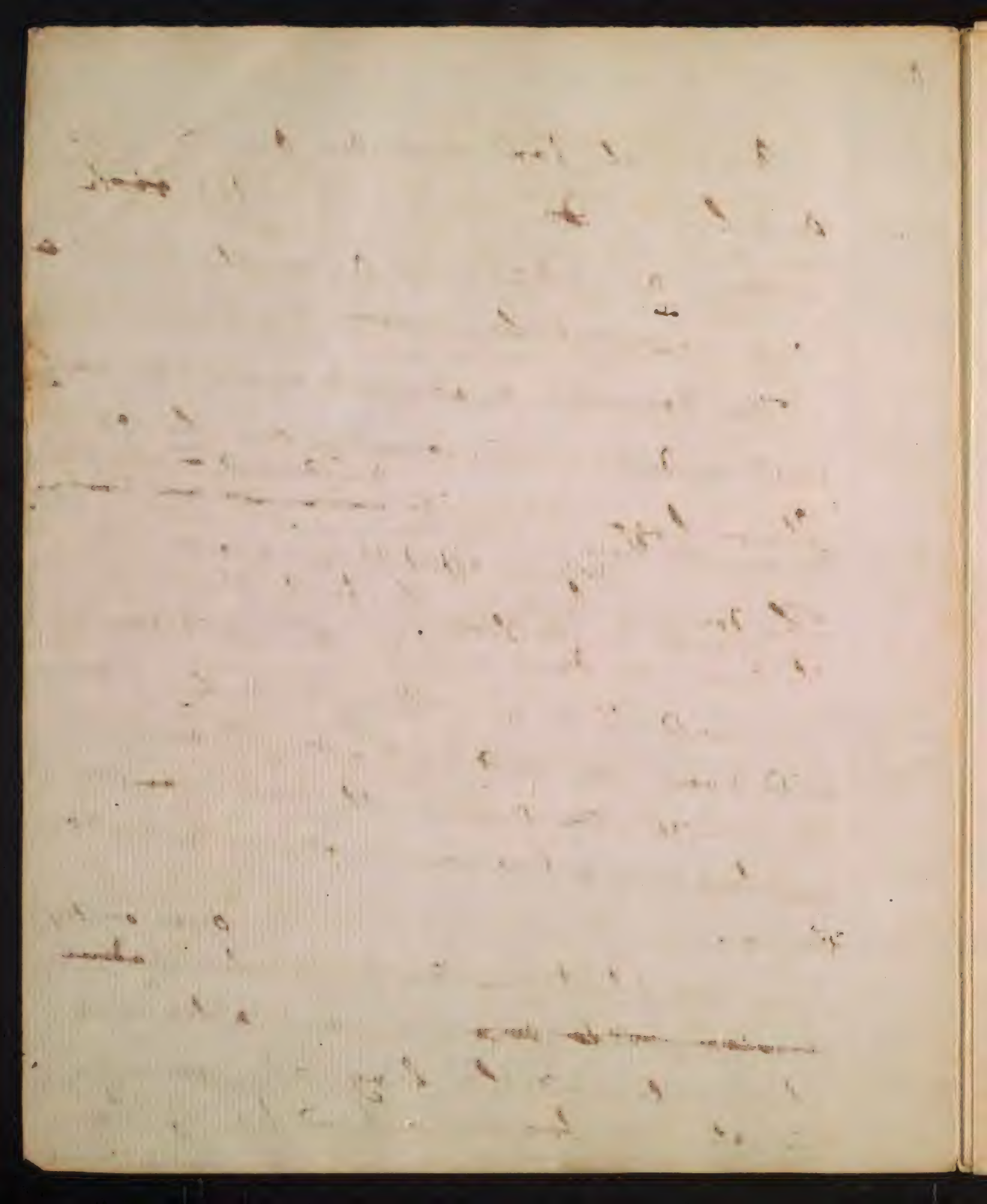
and was given to

...the ... of the ...

... Hoffmann ...

... and the ...

1890



~~I have divided fish into those that~~
~~fish~~

Fish include those
 under ~~this~~ ^{the} head ^{of fish}, I shall include ~~the system~~
 the Lobster, the Crab, the Oyster & the Clam,
 as well as the fish that swim into the
 water. They differ in their qualities according
 as they are taken in fresh or salt water.
 The ~~latter~~ ^{former} are more easy of digestion than the
 latter. They differ further according as they are
 taken in running, or stagnating water.
 The latter are less digestible than the former.
 In point of solubility in the stomach, and
 nourishing qualities, they possess an in-
 mediate degree between ^{vegetables and} land animals.
 and ~~so~~ whole nations have lived chiefly upon
 them. In countries near the poles they
 supply the scanty ~~too~~ vegetable productions
 of the earth, and ~~thus~~ ⁱⁿ tropical climates
 they afford an aliment ~~or suited to the~~ ^{procured with but}
 little labor, and of course suited to the

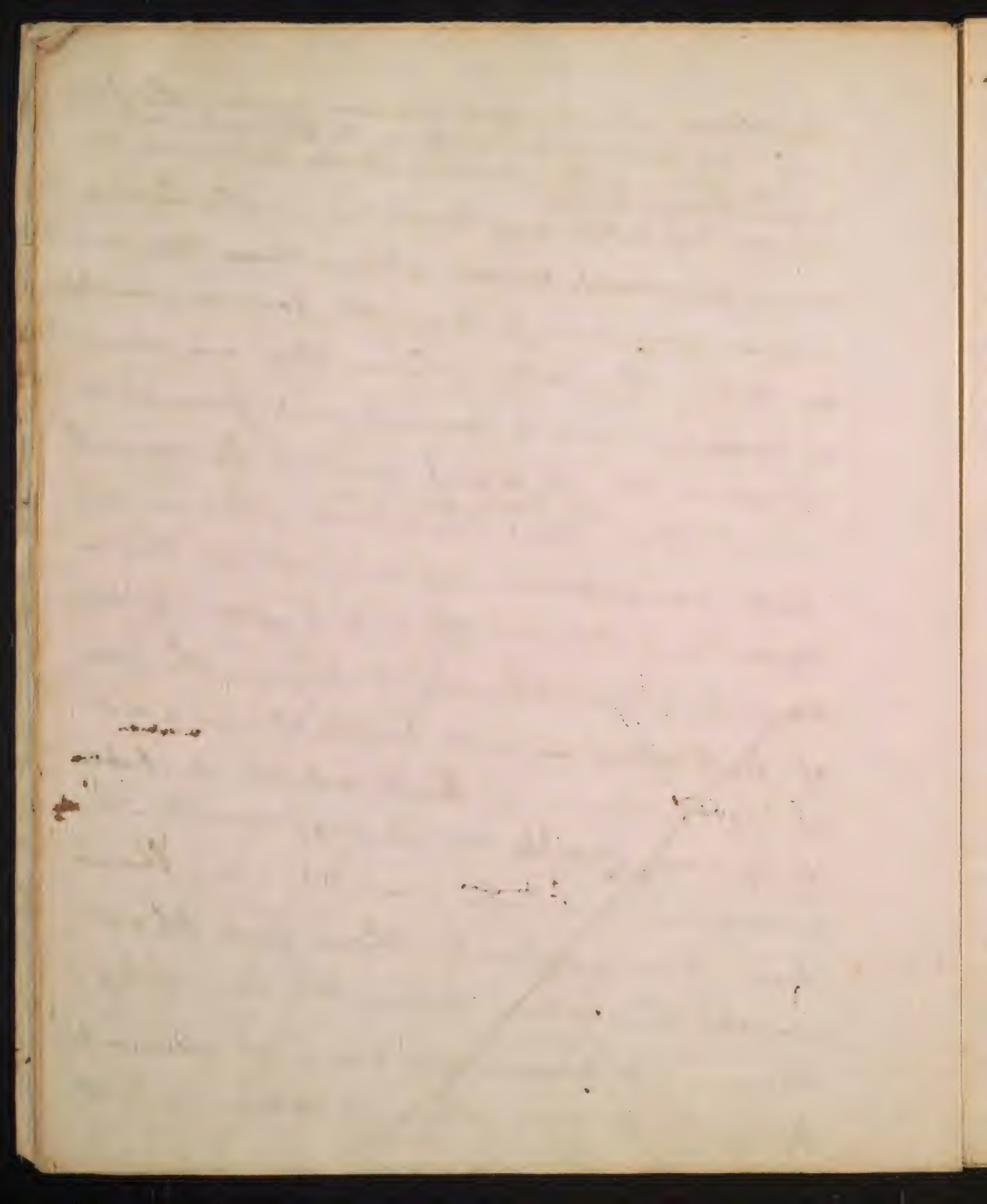
Handwritten text, mostly illegible due to fading. The text appears to be a list or a series of entries, possibly related to a collection or inventory.

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indolence which heat induces upon the body.
in point of solubility in the stomach, and
They form an intermediate Aliment be-
nourishing qualities
- tween Vegetables and Land Animals. being
~~more digestible & nourishing than~~ they are
more nourishing than the former, and less
so than the latter, hence they are prescribed
to invalids, and to convalescents from acute
diseases. The shell fish contain less nourish-
ment than ^{the scale fish or} those that swim. Lobsters and

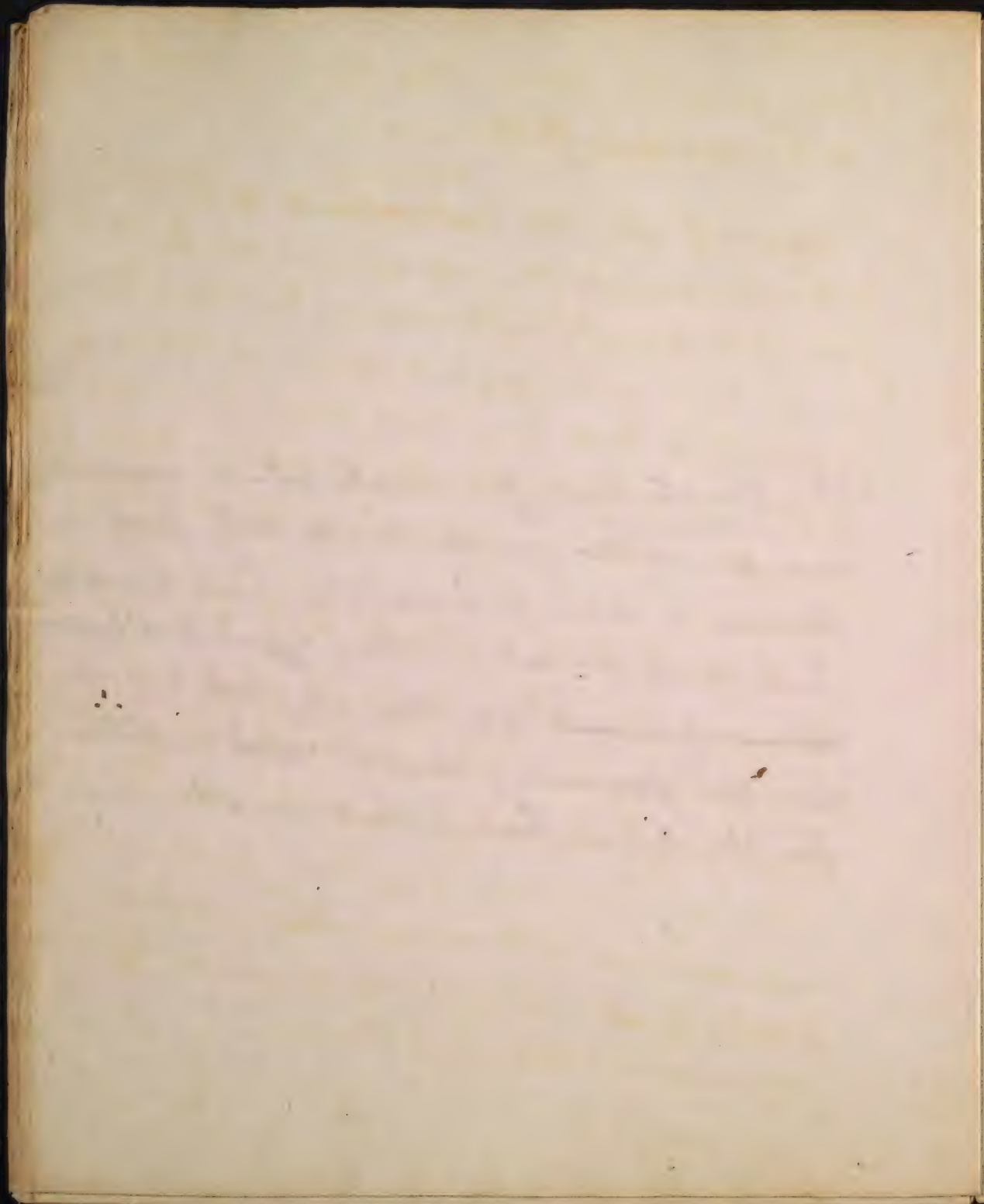
Crabs ~~resemble~~ are less nourishing than
Oysters and Clams. It is a custom of the
West Christian Church to enjoin the Use
of fish alone ~~as~~ with vegetables as a diet
during the season of Lent which includes
forty days ~~during~~ ^{of} the Spring months. This
institution is a truly wise one, and should
have been retained by those Sects that
separated themselves from the Church of
Rome. Its Advantages are 1. it reduces the
Quantity of nourishment taken into the



body, and consequently opens ^{plethora and} the predisposition
 to inflammatory diseases at a season when
 they are most apt to prevail. ~~It does~~
 It has this effect not only from the less
 quantity of nourishment conveyed into the
 body, but from the diminution of appetite
 which the same food taken for a long
 time generally creates, and 2 It relieves
 us from the anxiety of feeding upon land
 animals ~~when they~~ at a time when
 they are propagating their species, and of
 course ~~they~~ ^{are} ~~fit~~ when they are ~~unfit~~ ^{unfit}
 for Alignment.

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

The Amphibious Animals which occasionally
cover our tables are the turtle & the frog. The
former is eaten in soup. The hind legs of the
latter only are eaten. They afford but little
~~nourishment~~, are pleasant ~~like~~ vehicles
for the seasoning that is used with them,
for they afford but little nourishment.



Letter only are eaten. They are considered as a ^{highly} delicious ~~kind~~ food. —

Supplies for the ^{citizens} inhabitants of the United States, the ample Supply which it hath pleased a bountiful Providence to afford them, of the numerous ~~and~~ pleasant articles of food which have been mentioned does not enable it necessary to have recourse to the insects or worms of our Country for subsistence. —

I shall take notice of fish as an aliment after delivering some general remarks upon the ^{relative salubrity} ~~relative salubrity~~ of the ^{general} ~~general~~ ~~mode~~ of preparing, ~~preserving, and the manner~~ ^{land} ~~land~~ ~~clases~~ of Animals that have been mentioned, and upon ^{their} ~~their~~ ~~relative~~ ~~salubrity~~ and upon the manner of preparing and preserving them. —

Dear Sir
I have the honor to acknowledge the receipt of your letter of the 10th inst.

and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

I am, Sir, very respectfully,
Your obedient servant,

J. B. Smith

Secretary of the Board of Directors

of the City of New York

City Hall, New York

10th Nov 1840

Enclosed find a copy of the report of the Board of Directors for the year ending 31st Dec 1839.

and its Solubility

Stimulus

The ^{solubility} of animal food in the stomach, also ^{and its subsequent nourishing} ^{and wholesome} qualities depend upon the following circumstances.

1 The sex of an animal. The females of all animals are more tender, and easier of digestion than the males. ~~Animals that have lost their virility are~~

Liberum

2 ~~Animals that have lost their virility are easier of digestion than~~ those that ~~lose~~ the state of an animal with respect to virility. ~~Queen, heathers, and capons are~~ easier of digestion than the bull, the ram and the cock. -

3 The age of an animal. Adult animals ^{stimulating, & digestible} and afford more nourishment ~~are more~~ easy of digestion than young animals. Beef and mutton are in their most perfect state when.

✓ ~~no difference~~ fish. There is no difference
with respect to its between young and old
fish, with respect to its digestible & nour-
ishing qualities.

✓ every part of its flesh, more so
than its ^{heart} liver, kidneys, and intestines.
The brain, ^{but} and lungs afford but
little nourishment.

Birds predication - as after the chase
Defect. • Raven Eagle

they are about five years old. Old beef
may be distinguished from young that
which is young, by its fat being diffu-
sed alide through every part of its flesh,
whereas in young beef the fat ~~is~~ ^{is}
more confined to particular places. ✓

4 Upon the Clap, and Species of Animals,
wild animals are more easy of Digestion,
than Domestic; ~~the turkey and the~~
~~fowl~~ Beef and mutton are digested more
easily than pork, and the turkey &
fowl more easily than the goose, and
the Duck.

5 upon the ^{of animals} ~~parts~~ ^{parts} which are the objects
of aliment. The leg Loin of Beef is more
digestible than other parts of its flesh, & ✓
the legs of ~~birds~~ ^{domestic} wild birds are
^{easily digested} more than their wings from being less
brained by constant exercise.

6 The time and manner in which
 Animals are prepared for the slaughter
 house. Animals that are fattened gradually,
 and that partake of exercise ^{afford a more} are more
^{of strengthening Aliments} ~~capable of digestion~~ than Animals that
 are stall fed, and fattened suddenly. The
 superior excellence of the Irish beef depends
 upon its feeding for two years in pasture
 where they ^{have} plenty of food, and room to
 exercise their limbs before they are killed.
~~They are~~ All animals are most wholesome
 when their food is most abundant. The
 Pork is insipid in Summer, compared
 with what is in the Autumn when there
 fruits and roots abound upon which it
 delights to feed. ~~The best Animals~~ ^{afford}
~~the best wholesome~~ ^{food} during the time in

✓ Aliment in wet than in dry
Seasons, ^{Sheeps thrive most in dry}
~~the less rain, the more~~
^{weather,} ~~delicious the vegetation in all lower~~
~~places, provided it does not there be~~ ^{rain}
enough to prevent keep up the
vegetation of the grass.

11 Sheeps that have lived up on moun-
-tains ^{afford a} ~~are more~~ ^{strengthening} ~~wholesome~~ ^{digestible} ali-
-ment ^{than} ~~than~~ live upon plains. Their
flesh is improved by their greater
exercise, and by breathing mountain
air.

1. The first part of the paper is devoted to a general discussion of the problem of the origin of life. It is shown that the problem is one of the most important and most difficult in the history of science. The author discusses the various theories of the origin of life, and shows that the most plausible is the theory of spontaneous generation.

[Faint, illegible handwriting]

and grain which are forced by the man-
 -ure of large cities, are less fitted for food
 than those which ~~as~~ derive their flesh
 & fat from ^{the} pasture and grain ~~that~~ of
 ground that has not been ^{not felt the} ~~manured~~.
 influence of stable manure.

I upon the exercise they undergo previously
 to being killed. The quicker ~~the~~ digestion of
 wild, than domestic animals is occasioned
~~by~~ ^{by} their being more exercised in run-
 -ning & flying. Art has imitated nature
 by introducing the practices of bullbating,
 cockfighting and the chase in order in pro-
 -duce a similar tenderness in the flesh
 of domestic animals. a fowl is ~~always~~
~~more~~ rendered more digestible when
 chased for some time before he is killed.
 The flesh by these exercises, acquires

V 10 upon the food upon which Ani-
mals have been fed previously to
their killed. The hog affords a more
wholesome aliment when he ^{feeds} upon
acorns, and grain, than when is fattened
by the swill and offals of a kitchen.

The flesh of the deer in England is pre-
ferred to the flesh of the wild deer in
America from its feeding upon the Thyme
which grows in the parks in which
they are kept. They live in dry heaths and where
they are kept they feed upon short grass. —

the black color from which wild
animals have obtained the name
of black meats. From the quick
digestion of wild flesh, and the ^{speedy} debility
return of appetite and debility after-
wards, the ~~in~~ restless in our countries
complain of an inability to work when
fed upon it, and soon call for the
flesh of domestic animals which by
its longer duration in the stomach keeps
up a more strength and excitement in
the system. V

~~The Upon the quantity of fat they con-
tain. The lean parts of fat animals
is more nourishing than the lean parts
of such as are lean]~~

10 Upon the manner in which they
are killed. The more suddenly life is

V This remark extends to fish as well as
to land animals, and hence fishermen
often ~~strip~~^{break} the heads of fish as soon as
they come out of the water, and thus
prevent the injuries which their flesh
sustains by their ~~strongest~~ convulsive
motions when they are thrown upon
the ground.

extinguished in them, the life depends they
 are to a rapid solution in the stomach.
 To this, ^{general rule} there is one exception. Dr Franklin
~~found~~ he has taught us by a number
 of experiments that animals killed by
 strokes of Electricity are easier of digestion
 than animals killed in any other way.
 The life blood is drawn from animals
 in taking away ^{this flesh} their lives, the sooner ^{they} ~~they~~
 pass out of the stomach. To prevent a
 mistake in judging of this fact, it will
 be necessary to add, that fat animals ^{which} when
^{become suddenly fat,} ~~killed~~ contain less blood than ~~lean~~ such
 as are lean, and of course pour forth
 less from their blood vessels when they
 are killed.

12 Upon ~~this~~ the quantity of fat they
 contain. The lean parts of fat animals,

all animals is more nourishing than the lean, but it is more slowly digested. For this reason pork is preferred by labourers to beef and mutton. It affords most stimulus by its longer confinement in the stomach, and most nourishment from its larger quantity of fat fat.

11 Fish likewise, from ^{its} rapid tendency to putrefaction, should be eaten as soon as possible after they are taken out of the water.

12 Animals that are bled plentifully when they are killed, are less disposed to putrefaction, than those that are not. This is the case, with fish as well as land animals. The ~~taste and wholeness~~ ^{simple and} the former are rendered more ^{simple and} wholesome, ~~and in various~~ ^{when killed thus bled to death.}

is more easily digested than the lean parts
of such as are destitute of fat, ~~the fat of~~ ^{the fat of}
the time in which they are
13 upon ^{the} ~~their~~ ^{being} kept after being killed.
~~a longer & shorter time~~ The longer
meat is kept before it is eaten, the more
readily it digests. To this ^{there} are a few
exceptions. The pig, the goose & the duck
should always be eaten ~~on the day~~ within
~~four & twenty hours~~ ^{four & twenty hours} (according to the state
of the weather) after they are killed. The
flesh of animals that ^{have been} kept for several
days without food before they are killed,
keeps much longer without being taint-
ed, than the flesh of animals that
are killed with full bellies. ^{the flesh of} Poultry keeps
longest when their entrails
are extracted from them. ^{It is} The flesh, by
this means, is preserved from a disagree-
able taste.

✓4 By the complete exclusion of the
Air. a sea Captain informed me that
he buried a hog of mutton in the
middle of a barrel of flour in Philadel-
phia, and took it out ^{three weeks afterward} in a sound
state ⁱⁿ After a voyage of three weeks to the
Island of Barbadoes.

5 By ~~wrapping it up~~ covering it com-
pletely with the powder of Charcoal.

6 ~~The late Dr. Choquet while he resided in~~
~~Jamaica introduced the following method of~~
By sprinkling it with salt. meat preserved
in this way is said to be corned. The late

Dr. Choquet while he resided in Jamaica applied
the salt in the following manner. ^{He killed} ~~The~~
~~the animal by opening~~ drew all the blood

out of the body ^{of the animal} by opening the Carotid Ar-

tery. As soon as ^{by means of a pipe} the animal was dead,
he poured a strong solution of salt water

for ~~in~~ two or three days into the blood: -
refills through the opening made in
the Carotid Artery.

taste
 which it derives from the contents of the
 bowels. We may always know when
 a poultry are upon the eve of putrefaction,
 and ~~of course~~ ^{consequently} most fit for the spit, by
 the relaxation of the spiniter of the loins,
 in which case there is an aperture of
 that extremity of the intestines. There
 are several ways of preserving meat in its
 fresh state in warm weather. These
 are: by placing ^{it} in an ice house, or
 surrounding it with ice in a ~~cool~~ ^{ice} cell,
 or Cool Cellar. -

- 2 By suspending it in a damp & cool well.
- 3 By keeping in a cool and dry cellar
 which is ventilated by a chimney.
- 4 By immersing it about a foot below
 the surface of cold ~~water~~ spring water.
 It will be most safe in the cold water

By burying it
8 V ~~upon its being buried~~ one or two feet in
the earth. -

Spring on
of a ~~h~~ⁿ milk house. ~~meat will keep~~ This mode of
~~a book on~~ preserving meat was discovered
by the late Dr Edwards. It will retain
all its sound and wholesome qualities
for eight [&] ~~or~~ ten days in this situation
in the months of July & August. It
contracts a pale color in the water,
but when a knife is thrust into it,
~~the~~ blood follows it as if it had been re-
cently killed. It should always be ~~deep~~
cooked as ~~fast~~ soon as possible after
it is taken out of the water. ✓

99 It is said flesh putrefies sooner when
exposed to the light, even of the moon
than in a dark place. I would rather
suppose the influence of moonlight
upon the animals before they were

killed disposes this flesh to a more speedy
 putrefaction than ^{by any effect upon it afterwards.} ~~under other circumstances.~~
 What renders this probable is that Crabs &
 Oysters are larger & fatter during the full moon
 of the moon than at any other time.
 - Perhaps the ^{influence of the moonlight upon flesh} ~~fact~~ has been ascertained without
 sufficient examination, from ^{its} ~~these~~ inhibi-
 ting Animalcules sooner in During moon-
 light than at other times, and that in con-
 sequence of these animals being allured by
 the light, to deposit their eggs upon it.

Thunder and lightning certainly hasten
 the putrefaction of ^{flesh} ~~meat~~, and as there ^{are no} ~~is means~~
 of obviating its effect, it will be necessary to use
 it, as soon as possible after it has ^{been} ~~been~~
 this influence. —

Meat when but little tainted, may be
 restored by infusing it in Lime water, or
 wrapping it up in ^{the powder of} Charcoal. — The lime
 water is most certain in producing this effect upon
 fish.

is by previously pounding raw flesh that
✓ ~~It~~ ~~this~~ ~~is~~ ~~the~~ French Cooks
prepare ^{it} ~~this~~ ~~meat~~ for the pot, and
the Spit.

a note from on Digestion

+

- I return
13 Upon its being pounded or beaten before
it is cooked. Dr John Pringle found that
flesh ~~meat~~ when beaten in water, putrefied in
half the time that meat does that is left
to itself in a quiet state. ^{farility with} ~~the~~ The ^{rapidity with}
~~which this takes~~ which meat digests in
the stomach is in proportion to the rapidity
with which it putrefies out of the body.
14 Upon ~~its~~ being thoroughly ^{done} ~~done~~. The
opinion of half done, or half cooked meat being
^{easiest} ~~more easy~~ of digestion, ~~than it~~ has been
refuted by a number of experiments made
by Dr Stevens of St Croix and published by
him in his ^{in 1792} inaugural dissertation.
15 Upon its being thoroughly masticated. This
has likewise been proved by experiment by
Dr Stevens. Where this cannot be done from
~~dearth of teeth~~, or from the want of teeth, the
meat should be previously minced or cut
into small pieces. The connection of sound

~~✓ Long as it lies in the flour~~
✓ and which after all I believe ^{is} never
able to extract all its nourishing
qualities from it. ~~and~~ wild beasts are
said to owe their strength to eating raw
flesh. ^{Perhaps they} eat ^{& digest} raw flesh because they
are strong. The same reasoning apply, here
that were applied to the cooking of vegetables.

a note

+ The Barley broth is made according to Sir John Linclain by boiling a leacup full of Barley for half an hour in a gallon of water - then add - three pounds ^{lean} of Beef, or a neck of Mutton, with Carrots or turneps and Onions cut into small pieces, And a pound of Green peas when they are in season, and let them boil gently for two hours. ~~with~~ ^{A little salt must be added afterwards.}

Vegetable is made by boiling an old ~~some beef~~ ^{beef} ~~beef~~ ^{beef} or fowl, with a piece of beef, ^{pickled & dried} & some prunes for some time in ^a water in the usual quantity of water, and for the usual time, & afterwards the usual quantity of salt.

Swiss Grape is made by boiling five pounds of beef in gently for four hours in a gallon of water to half a gallon with Onions, Cabbage, Carrots, and as much salt as will render it agreeable.

Flesh is prepared for food,
1 by being boiled in water with certain
additions of vegetables & condiments, &
thus made into soups or Broths. ^{many} ~~The East~~
nations in the world have preferred
~~the~~ flesh prepared for food in this
way. The Spartans had their black
broth, the Scotch have their barley
broth, and Cockle-broth, and the French
their Truss grape. ~~& soup & caque~~ These
excellent liquors should always compose
the first dish of every temperate family.
They not only afford ~~but~~ a great deal of
nourishment, but they sometimes by
~~obeying the first~~ damping the appetite to
prevent excess in partaking of subsequent
dishes. They are most salutary and
agreeable when made by placing

+ heavy work

with its vegetables & seasoning
 the meat, over a slow fire well covered,
~~with~~ and in water which should be kept
 for four hours a few degrees below the
~~proper~~ boiling point agreeably to the advice
 of Count Rumford. In this way we obtain
 the juices of the meat with but little of
 its fat. ~~The fat should be made to rise~~
~~to the surface of the water just before~~ Just
 before the pot is taken off the fire the water
 should be made to boil ^{for a few minutes,} in order to throw
 the fat to its surface. ^{then skimming} This fat is ~~then~~
 off, and the broth becomes fit for use.
 The meat from which the broth is made
 is sometimes so much exhausted of its
 nourishment as to be incapable of ~~undergoing~~
 putrefaction. — There is ^{another} mode of obtaining
~~By boiling Roasting.~~ meat thus prepared
 is ~~not~~ = ing the juices of meat, and



bound or more
that is cutting a piece of meat from
which the fat has been separated, into
small pieces and putting them in a bottle
or jug well corked ^{with} a rag tied over the
Cork, and then putting it into a pot of
water which is gradually heated, and
then boiled for four or five hours.
From a pound of beef or mutton half
a pint of liquor is thus obtained. When
seasoned properly, it makes a pleasant
and very nutritious article of liquid
Aliment.

2 Roasted meat is ^{both soluble in the} ~~stomach~~ ^{stomach}, & nourish-
ing from its particles being confined by
the crust being formed over it by means
of the fire. the fibres of the meat are
softened by the action of the fire upon them
get its juices.

Handwritten text, likely a letter or document, written in cursive script. The text is heavily faded and illegible due to the quality of the scan. The page appears to be a single sheet of paper, possibly a letterhead or a page from a book. The handwriting is dense and fills most of the page.

3 Broiled meat is ~~the same as~~ ^{nearly the same in} ~~its qualities as~~ roasted meat. The more
 intense the heat over which the meat
 is placed whether on a gridiron, or live
 coals, the what are called flakes are
 prepared in this way. ~~The~~ By concentrating
 the surface of the meat by means of a
 quick or intense heat, ^{its} ~~the~~ juices ~~of~~ are
 confined, and the meat becomes more
 nourishing. The smokers in Cornwall
 prepare their flakes by placing them upon
 the smooth surface of large blocks often
 in the instant of their passing from a ~~solid~~
 fluid to a solid state. The lower part of
 the meat is ^{thus} ~~the~~ ^{so} hardened, ^{by the intensity of} ~~by the~~ ^{so} ~~that~~
~~the heat, that~~ all its juices are retained, and the ^{taste} meat
 thereby rendered more ~~tender~~ ^{of digestion}
 and nourishing qualities of the meat

V 4 By being half boiled^{ed}, then cut into
slices and boiled. Mutton is ~~much~~
~~improved in tenderness~~ rendered
more tender & savory when cooked
in this way.

5 By boiling. ~~wherein~~ is a considera-
-ble portion of the nutritious matter of
meat is lost by this mode of preparing
it for aliment. It is in this state
suited to convalescents from fever, &
to persons of feverish habits. Mutton
is most wholesome when cooked in
this way, and so ^(contrary to common opinion) are Geese and ducks.
The water dissipates the oily ^{parts} from them,
and thus renders them a milder, and
more digestible aliment for weak sto-
-machs. Fish by throwing off a portion
of ^{its} oil in boiling becomes more easy of
digestion than when when cooked ~~thus~~

thickly increased.

✓ By
Frying. The butter, oil, lard, or bear
grease in which meat is usually
fried is often so much altered in its
qualities by the fire as to render the
meat prepared in this manner less
~~agreeable and~~ easy of digestion than
meat prepared in any of the ways that
have been mentioned. — Fish is generally
cooked in this way. —
By means of Vapor. The meat prepared
in this way is placed upon a stand in a
pot which is closely covered. This pot
is placed over a fire with a small quan-
-tity of water in it. The heat of the fire
converts this water into vapor which
by its intense heat, ~~converts~~ ^{softens} the meat
~~into a pleasant and nourishing~~ and
easy of digestion.

in any other way. We may always know,
when fish ~~has~~^{is} boiled enough when
it floats upon the surface ~~up~~^{of} the
water. It sinks a second time when
it is boiled too much. | I shall mention
hereafter the ~~condiments~~ ~~that are~~ matters
that are mixed with it in order to render
it palatable after it has undergone the
action of fire. +

8. By baking. meat thus prepared retains its juices, but its surface is often so hard - and by the fire as to be unpleasant to the taste. When baked with other ^{articles} ~~dishes~~ of food it is apt to contract ~~the~~ a taste from each of them.

9 By being made into what are called stews or hashes with ~~cut~~ bread, and certain vegetables. Meat is agreeable & nourishing when prepared in this way. mutton half roasted and then made into a hash, Dr Franklin used to say was the most agreeable mode of preparing that kind of flesh for the table.

10 By being baked, or boiled in a paste made of flour & ^{butter} in which state they are called meat and pot pies. The meat thus prepared is softened by the fire, and retains with its juices a great deal of nourishment. The

Vand flowers of digestion.

paste is rendered more digestible by the mixture of an equal quantity of potatoes with the flour. -

11 By being ~~dryed~~ ^{exposed} for several months to the action of smoke. The salt contained in the smoke resists the tendency of flesh to putrefaction, while its dependant situation discharges its juices which likewise helps to prevent its putrefying. ~~It~~

Beef and certain ^{fish} are prepared in this way for Aliment. They ^{stimulate the stomach,} ~~contain~~ but little nourishing, but they are ~~not~~ but they are hard of digestion, and ^{convey} but little nourishment into the body. They are prepared by labourers from this difficulty.

12 By being exposed to the action of the sun. Stock fish is prepared for food in this manner.

13 By being infused in ~~being~~ ^{being} Vinegar. ^{Salmon} ~~infused~~ and Oysters are prepared for the table in this way.

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side. The text is arranged in several paragraphs, with some lines appearing as horizontal strokes. A small, dark mark is visible near the center of the page.]

They lose a portion of their nutritious matter in the Vinegar, and they ^{pep off slowly from} ~~difficult of solution~~ in the stomach.

~~As a~~ It is often necessary to preserve Animal food for months in order to be used in situations ^{and seasons} in which it cannot be procured in a fresh state, as the means of doing this are

1 By Common salt. This is the most universal preservative of ~~meat~~ flesh of all kinds. To be effectual, it should ~~not~~ ^{penetrate} ~~the meat~~ be applied in such quantities as to penetrate ^{its interior} the juices, ^{after} ~~for~~ if a small quantity ~~only~~ be applied, it acts only upon the surface of the meat, and by hardening it, confines ~~the~~ its juices, and thus ~~dis~~ accelerates, instead of retarding ~~the~~

✓ salted meat and fish ^{is} not less
-ishing than fresh.

2 By sugar and molasses. ^{this has} They
~~preserving~~ ^{are} too expensive to be ^{for} in common
use. The efficacy of these articles in
preserving flesh has been proved by
several experiments made by Sir
John Pringle. They are too expensive
for common use.

its
putrefaction. ~~of the~~ The addition of nitre
to the salt improves its antiseptic qualities,
and gives a more agreeable flavor &
color to the meat. The sooner these salts
are applied, after the ~~death~~ ^{is killed} of the animal
the better. Captain Forrest in his voyages
to several of the Islands in the ^{East Indies} advises cutting
out the bones of meat, more especially
of pork before it is salted, for putrefaction
he observed always began first ^{near} the
bone when it was salted in the common
way, in consequence of ~~the~~ its not being
penetrated by the salt and curing out a
flesh matter which putrefied, and con-
- laminated the contiguous flesh. ✓

3 By the heat of the sun. The Indians
cut their Venison & Buffalo meats
into small pieces and hang it up
upon sticks passed through them in the
air. The moisture is by this means

[The text on this page is extremely faint and illegible. It appears to be a single paragraph of handwritten text, possibly in cursive, covering the majority of the page area.]

dissipated from them, and thus putrefaction prevented. A Sea Captain informed me that he had in this manner ^{preserved} the freshness of meat at sea. ^{He ate it} ~~He ate it~~ as he wanted it made into Soup. The Stock fish I have said is preserved in this way.

4 By freezing. Flesh is preserved in cold Countries entirely in this way during the winter. It ~~then~~ is thawed by being immersed in successive quantities of cold water. When thawed in warm water, it loses a good deal of its savoury ^{taste.} ~~part~~

5 By smoke. ^{But, hams, and several} ~~Hams are preserved~~ kinds of fish are preserved ^{after being salted.} in this way. ^{They} ~~which~~ are afterwards subjected to the action of fire before they are eaten. ~~Then~~ The smoke which is applied to



Staves is not always sufficient to preserve them from putrefaction. They have therefore, when taken from the smoke house, been buried in ~~hard~~ ^{or} grave, ashes, ~~the~~ dry sand for that purpose, but often without ~~success~~ effect. Greater success has attended burying them in cut straw, ~~and~~ or tying them up separately in bags made of coarse linen, and hanging them with their small ends downwards in a cool dry cellar.

6 By being boiled until the meat imparts all its enervating qualities to water, and then reducing ~~this~~ ^{it} water to a thick consistency by boiling it a second time. The matter thus obtained, has been called Patent Soup. It is dissolved in boiling water ~~and reduced to a~~ ^{it is} as to form a liquid Soup, when ^{it is} required for use.

V most agreeable article of Aliment,
and well accommodated to the all
~~Seasons~~^{The seasons} with ~~vital~~
Ages of ~~the~~^{the} and Countries. ~~a~~ The hardships
& honeyⁿ were, the only articles of Diet in
of a ~~Canago~~^{Canago} life were induced for forty
years by the Children of Israel to
held out to the Children of Israel to
reconcile them to the privations of a
Camp life for forty years in a Wilder-
ness, and to allure them to the promised
land. ~~of Canago which was said to~~
please with those delicious Aliments

Vegetable & Animal

There are besides the ^{two} stimulents that have
 been enumerated. ~~several other~~ ^{two} substances
 related to both which ^{large} constitute a ~~large~~ portion of the
 food of man. These are milk & eggs,
~~tea, coffee and chocolate, upon which~~

I shall make a few remarks upon each
 of them.

Milk ~~abounds~~ contains but
 little stimulus, abounds in nourishing
 matter, and is of easy digestion. It is a ^V
~~It is composed of three parts, into~~
~~which it separates spontaneously when~~
~~left to itself - these are, butter - cheese &~~
~~whay. The butter is of a vegetable nature,~~
~~the Cheese partakes of the qualities of~~
~~animal food - the whay is - nothing but~~
~~water with a portion of lacticine matter~~

V or baked with both into puddings.

b It forms a pleasant Desert when made into what is called Grindel by means of a piece of Rummet, or by adding a little wine two table spoons full of a quart of wine into which a whole rummet has been infused, to half a gallon of milk. -

an agreeable article of Diet of Diet prepared from milk
There is ~~a pleasant substitute for butter~~ ^{which is} used by the Germans in Pennsylvania called ~~for~~ Smeat.
- case. It is made by ~~pouring~~ ^{pouring} milk before the fire until it forms a coagulum. The whey is strained from it and to the remaining curd an equal quantity of Cream is added. Over this mixture is sprinkled a little pepper and salt. It is ~~spread~~ ^{put} upon bread instead of butter. ~~It is~~ ^{It is} least offensive to Stomachs disposed

to acidity when taken without being skimmed. The ~~better~~ Cream blunts the acid ^{whether it} ~~which~~ ^{preexists} in the Stomach, or ^{it} ~~is~~ be formed by the decomposition of the Milk.

dissolved in it. The Butter is nourishing
 Animals, but that which is used in our country
 is the second degree. Even the quantity of
 is obtained only from the cow. This
 nourishment contained in butter it is

Should be eaten in moderate quantities in
is usually eaten
Meal ^{by itself}, or mixed with bread,
or ^{with} raw - baked, - or preserved fruits, or roots, &
or much ^{it is} boiled with flour or rice,
potatoes, ^{or} nations fed upon it chiefly

or much ~~on~~ ^{of} ~~it~~
potatoes,
~~afford~~ ~~in any nation~~ fed upon it chiefly
It is sometimes preferred ~~in~~ after it has
become sour,
~~undergoes its spontaneous decomposition~~
in which state it is acid, and is called
sour milk. When it is

in whole plate is
Bourne Clabber. In warm weather it is
most agreeable as well as most salutary
when taken in this way as it serves to
obviate the tendency of the system to that
state which predisposes to fevers. Mr Eaton
in his survey of the Turkish empire
speaks in high terms of an ^{alienant} ~~acid~~ ^{acid} ~~preparation~~
prepared from milk rendered phosantty
and by means of a ferment, which the



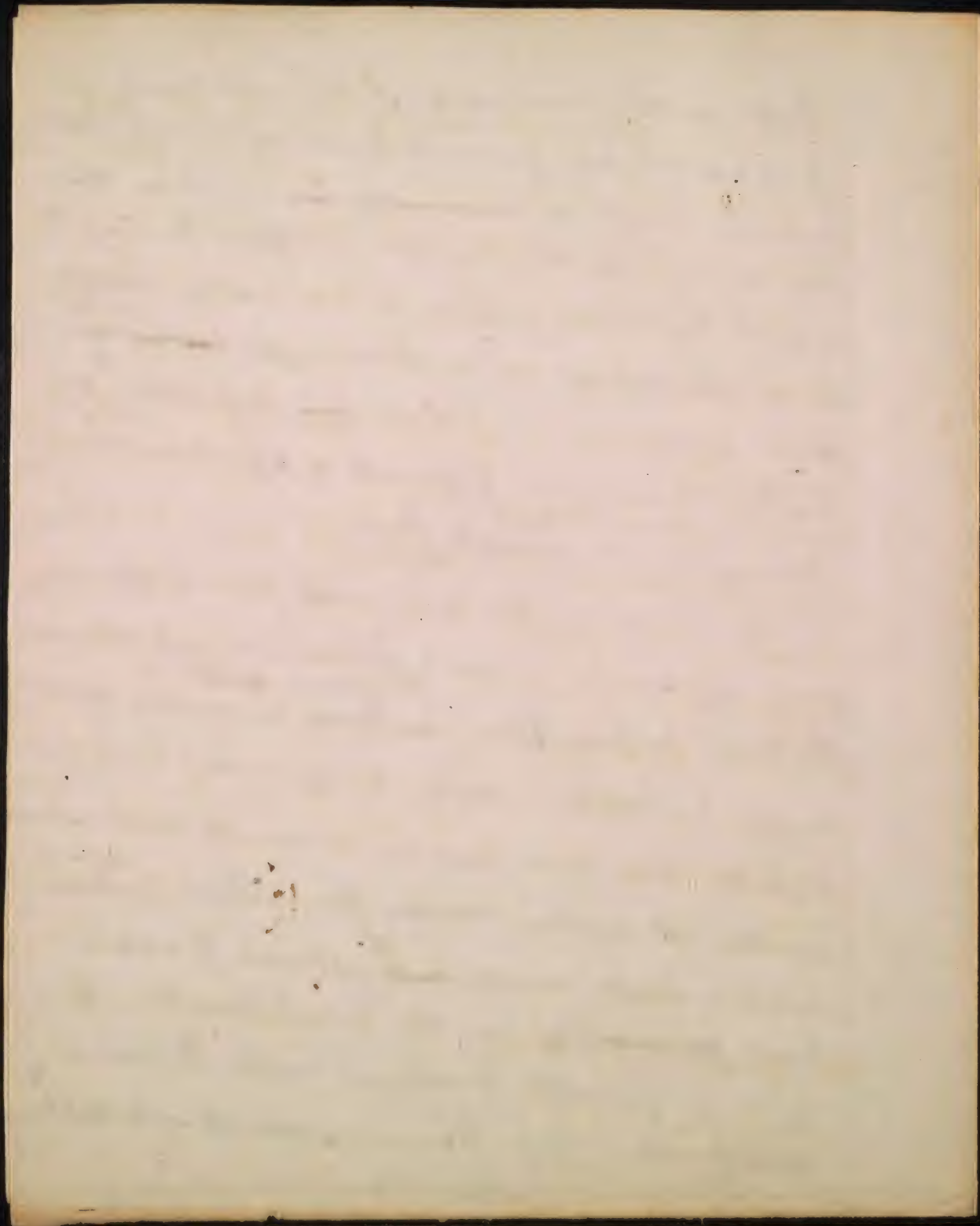
Turks call Yvourt or Celen.

Butter milk is composed of three parts
 viz Butter - Cheese and ^{Whey} ~~Cheese~~. They separate
 into these parts spontaneously, or they
 are separated ~~by~~ into them by means of
 Art. The butter possesses all the common
 properties of a vegetable oil. It is formed
 from the Cream which rises to the surface
 of milk after it has stood for some time,
 by Churning. The more completely the
 cheesy and watery parts of the milk, are
 pressed out of the butter, the less disposed
 it is to become rancid. By repeated wash-
 ing ~~the~~ in water, this rancidity may be
 removed, for the parts which ~~partly~~ are
 soluble in water. It is nourishing, but
 cannot be taken in large quantity without
 offending the stomach. It is said to be

+ "Sunt mihi poma, praepigne copia
lactis." Virgil

Gold in the morning. Silver at noon, &
lead at night from which it may be
inferred that it ~~cannot be~~ requires the
vigour which the system possesses during the
day, to digest it. It is never eaten alone,
but ~~forwards~~ with bread, - or ~~is to be~~
other aliments. When ~~both~~ dissolved, ^{when}
baked, it is more difficult of digestion than
taken in its ^{solid} ~~simple~~ state.

Cheese is the animal part of milk,
and contains more nourishment than
Butter. When ~~few~~ ^{the same of it} ~~large~~ quantity of it
may be taken daily as of meat. By
age it acquires ~~an~~ a pungent taste which
renders it more proper for what ^{see is} I shall
call a Condiment, ~~and~~ ^{of} which I shall
treat ~~presently~~ in the next chapter. It is
eaten only with bread, or with certain
raw fruits. The Romans ate it with apples.



The whey of milk contains a small portion of saccharine matter dissolved in water. It is a pleasant aliment for invalids and convalescents from acute diseases, taken by itself or eaten with bread. —

so much of the ~~late~~ healthy and useful qualities of milk, and ^{of} its products depend upon the ^{aliment} ~~the~~ food, and the treatment of the cow. ~~the~~ The former should be excellent, and nourishing, the latter should ~~be able~~ have room to exercise herself in walking, and where this is not practicable, she should be ^{to use the horse's phrase} rubbed down every morning and evening. The milk is not only increased by these means in its quantity, but much improved in its qualities.

For and by the ~~and~~ increase of the cavity
in which the air is contained. They are
eaten raw, or beaten up ~~by~~ in water,
wine, Spirit, and hyson tea. ~~in all~~
~~which consistencies they afford a good~~
~~deal of nourishment~~. They form
an excellent habetate for cream
when beaten up with any of the ^{India} ~~China~~
teas. They afford most nourishment
when ~~to~~ taken in this way, but they
are less digestible, than when they have
~~not been~~ partaken of the action of
fire by boiling, or poaching,

Eggs constitute a Considerable part of the
food of the inhabitants of many Countries.
They are, like milk, of a compound ^{nature}.
~~getable or animal matter~~ The white of
the egg is of the ~~belongs to the~~ ^{it} ~~proposes~~
Vegetable; and the yolk animal ^{and of} ~~proposes~~.
They are ~~larger~~ ^{the latter} ~~proposes~~ ^{is sooner}
crude ~~digested~~ ^{is digested} ^{sooner}
under equal circumstances than the for-
mer, ^{on} ~~for~~ which ^{account} it is sometimes prescribed
without its ~~white~~ ^{alone} for weak Stomachs.
We may always know when an egg is
sound by ^{larger} ~~small~~ ^{end} ~~its~~ ^{a sensation of} ~~impacting~~ ^{a sense of}
a moderate heat to the tongue, ~~they are~~
~~not prepared for food in this simple~~
~~state by boiling, or~~ ^{or} by being mixed with
milk - ^{into} ~~into~~ ^{on} ~~on~~ ^{with} ~~flour or rice~~ ~~the~~ ~~like~~ ~~into~~
puddings. They ~~are~~ ^{should be} ~~not~~ ~~only~~ ~~digested~~
~~are~~ ^{are} ~~cooked~~ ^{are} ~~in~~ ^{are} ~~above~~ ^{are} ~~the~~ ^{are} ~~boiling~~ ^{are} ~~point~~ ^{are} ~~and~~ ^{are} ~~they~~ ^{are} ~~are~~ ^{are} ~~not~~ ^{are} ~~in~~ ^{are} ~~a~~ ^{are} ~~liquid~~ ^{are} ~~state~~ ^{are} ~~they~~ ^{are} ~~are~~ ^{are} ~~not~~ ^{are} ~~may~~ ^{are} ~~be~~ ^{are} ~~preserved~~ ^{are} ~~during~~ ^{are} ~~long~~ ^{are} ~~ways~~ ^{are} ~~by~~ ^{are} ~~being~~ ^{are} ~~covered~~ ^{are} ~~with~~ ^{are} ~~tallow or~~



Bees wax first melted, and applied over them
 by means of a feather. For this purpose
 they the beehive ^{of water} in which they are ^{to be placed} ~~maintained~~
 after previously boiling, may stand ^{upon a} ~~upon~~
 table or at ^a distance from the fire. They
 should be taken out of the water as soon
 as the heat pervades every part of ^{them} it in which
 state, the whole egg is alike soft and easy of
 digestion. Eggs may be preserved during
 long sea voyages by being covered with tallow
 or bees wax first melted, and applied over
 them by means of a feather.



Of Condiments.

The same bountiful Creator who added
the pleasures of music to the commonness
of the ear, and of Colours to the commonness
& necessary uses of the eye, hath added
~~increased the pleasures of taste by fur-~~
~~ished~~ us with certain substances to
be mixed with, or added to our Aliments,
which are intended to ^{promote health by} increasing the plea-
sures of taste.

They have been divided into saline,
sweet - oily, milky, ^{alliacous} ~~spicy~~, ^{et c.} aromatic
~~bitter and mucous~~, and acid. -

They act in the ^{stomach} following
ways: 1 They stimulate the tongue equally,
and thus add to the pleasure of eating.
2 They stimulate the salivary glands & thus
increase the quantity of saliva, &
thus assist digestion.

3 They stimulate the stomach, and

V 7 It is possible some of these may by
combining with Aliment cause them
to evolve a greater quantity of nourish-
-ing that is ~~usually~~ extracted from
it by the common powers of diges-
-tion.

We reason ~~for~~ incorrectly when we suppose
that / This depends upon the greater
dissolving power of the ~~juices~~ of the animal
juices of the stomach ^{it} enables them to
extract the whole of the ^{matter} ~~from~~ the less activity of
from the meat. ~~It~~ ^{It} does not afford
the gastric juice in the human stomach

no 25
Perhaps we mistake the effect for $\frac{1}{2}$ cause
in carniv animals. May be ~~there~~ it may
be their strength enable them to do & not
the flesh strength.

thus increase the secretion of gastric
 juice, ~~and~~ ^{& thereby facilitate} digestion.
 They likewise increase the
 activity of the stomach, and enable it
 more easily to throw the aliment when
 digested, ^{this the pylorus} into the bowels. —

4 They produce ~~excitement~~ ^{and strength} excitement through
 the whole system, from its sympathy
 with the sense of taste & the stomach, ~~and~~

5 ^{Some of them} They retard digestion, ^{and in so doing} ~~this is by~~
 they perpetuate the influence of Aliment

in the stomach in imparting vigor to
 the whole system. They likewise prevent
 in this way the frequent recurrence of
 hunger at times & in situations in
 which it is not convenient or practi-
 -cable to gratify it.

6 Some of them ~~and~~ convey nourishment into
 the body. V

V We read of its being its being sprinkled upon
^{those} ~~that~~ parts of the sacrifices which were eaten by
the priests under the Levitical law in order to
render them palatable & wholesome. It is so
essential in diet in some countries, that it
is common to denote the whole of a man's
subsistence by the word salt alone, as we do
by the word bread. ~~alone~~. Thus in some
parts of India a man who is supported by
the business of a friend is said "to owe his
salt to him". The same expression is used in
Holland in speaking of a speaking of a depen-
-dant who is fed by the hand of charity. Even
among the Romans it was considered im-
-portant a part of diet, that when a man
received an office from the Government he
was supposed to receive the means of purcha-
-sing his salt. - hence the origin of the word
Salary, from ~~the word~~ sal, which signifies
salt. These facts are mentioned to show that
the use of salt is nearly as universal as bread,
and almost as necessary for the subsistence of man.

The saline Condiments are chiefly Com-
-mon salt and Airds.

The Use of Common salt with ani-
-mal ~~and~~ food, and with certain Vegeta-
-bles is ancient and Universal. ^{It} ~~promotes~~ ^{promotes} the
dissolution of ^{fresh meat} ~~the food~~ in the Stomach,
~~and is not~~ but ~~when it~~ ^{it} retards the
digestion of ^{salted} meat. ~~that has been preserved~~
by it. It is for this reason ^{the latter} ~~that it is~~
preferred by Sailors, Soldiers & Labourers.
By its durable Stimulus in the Stomach,
it imparts Strength to the whole System.
When used in excess, ~~or~~ without Vegeta-
-bles it brings on ~~now~~ several Diseases
particularly the Scurvy. It is used not
only in its simple State, but combined

V And with ~~certain~~ ~~the~~ ~~flesh~~ ~~up~~ the flesh
in the form of ham - and what is called
meats ~~to~~ that is ~~the~~ beef's tongue.

with of certain fish, as ~~living - sprat~~
~~oyster also with in the form of a head - salted~~
 and anchovy, in which state it increases
 the appetite, ~~for~~ as well as helps the
 digestion. It should be taken in larger
 quantities with fish, than with the
 flesh of land animals, upon the account
 of its more rapid tendency to putrefac-
 tion in the stomach.

Vinegar is used chiefly as
 of the acids ~~used as~~ a condiment ~~and~~
~~vinegar, lime and lemon juice - Trained~~
~~tea and substances~~ in the United States,
 with all those vegetables impregnated
 with, and preserved by it which are known
 by the name of pickles. Much has been
 said against them ~~where and as in~~
 in ~~food~~ ~~systems~~ ^{the} ⁱⁿ tractions upon the means
 of preserving health. When substituted
 for Aliment, they are certainly hurtful,

And other acids more expressly as
a Condiment than any Nation in
Europe.

V Acid Condiments are useful in
lessning the Viscidity of fish, and of
young animals. They likewise obviate
flatulency, and hence their Utility in
Salads of all kinds.

and particularly in bringing on diseases of
the Stomach, but when used sparingly,
~~and so~~ as barely to ~~improve~~ be tasted in
our food, they are, ~~useful~~ if not useful
certainly inoffensive. Besides Vinegar,
the juice of Lemons, limes, ^{Tamarinds} and the Tau-
-matar are sometimes employed as acid
and Condiments. In Germany & France
~~they use~~ the juice of the Grape before
it is ripe, or a little fermented, is used in-
stead of the juice of those ~~less~~ tropical
fruits. It is not ~~only~~ only acid, but
gently astringent, and very grateful to the
taste. V The Germans use vinegar &
Sugar - honey - vinegars and various kinds
~~are pleasant~~ ~~condiments~~ and add
to the nourishing qualities of Aliments
as well as improve their taste. When

taken in a large quantity, they retard
 digestion, and finally impair the health
 of the Stomach. The celebrated Mr Richard
 Baxter has left it upon record that his
 constitution was ruined when a boy
 by his mother feeding him upon meat
 meats, or Aliments overcharged with
 sugar. When taken fasting, ^{it has been} ~~they have been~~
 found to prevent and destroy ^{the} Worms in children.
 The oily Condiments include ~~most~~
 of Olives & almonds - Cream -
 Oil, Butter, - ~~lard~~ and the fat of
 sundry Animals as the hog, the Sheep,
 the goose and several kinds of fish. They
 all facilitate the digestion ^{the} of the Aliment
 with which they are mixed - they retard
 digestion, and hence the Utility of one of
 them, that is butter with fish, and they
 are very nourishing. Dr Clark found by
 his experiments ^{that the fat of those} ~~upon the~~ ~~all influence~~
 Animals which are used in Diet afforded

✓ They are all emulsifying in a great degree, and when taken in large quantities ^{they} retard digestion, and weaken the Stomach. -

three times as much nourishment as
~~this~~ the lean parts of their flesh. Pork
is more nourishing than beef, only from
its containing more fat.

The Condiments which are composed of
the different preparations of milk are ~~cream~~^{swiss},
sour-cream, - evaporated milk, that is
the ~~lean~~ oily and cheesy parts of milk de-
-prived of its whey - the curds of milk -
melted butter - and all the different kinds of
Cheese. ~~That~~^{Cheses} of the ~~best~~, the Shapsago
and ~~the~~^{old} English Cheese are the most
stimulating. They should therefore be
taken in but small quantities. They
are ^{all} apt to excite indurc Coctiveness, and should
be taken sparingly by persons who are subject
to that state of the bowels.



✓ There are certain substances of a gelatinous
 nature which are employed as condiments.
 These are chiefly the shavings of hartshorn -
 the Ithivolla - Marsh - and the whites of
 & yolk of ~~an~~ eggs, and the jelly obtained
 from calves feet and other animal substan-
 -ces. They serve to improve the taste of
 several articles of diet by purifying them,
 and mixed with aliments of all kinds, they
 are lubricating to the ~~stomach~~ mouth and
 throat - and afford a ~~small~~ moderate
 degree of nourishment.

2

184

V The Alliacious Condiments, are Onions, leeks,
 Garlic ~~and~~ ^{and} Chelots. ^{both raw,} They are used ~~in this~~
 and after undergoing the action of the fire.
 They are A relish for them is the effect of
 habit, and hence like ^{other things} ~~all the Antiperistaltic~~
~~Spice Articles~~ of not originally agreeable to
 the Senses of Taste and Smell, they ~~become~~ take
 a stronger hold of the Appetite than such
 articles as are originally agreeable. They
 are ~~great~~ gently Stimulating, for which
 reason they have been resorted to, to oppose
 the ^{debilitating} effects of heat and labor in all coun-
 tries. ^{all ages & in} William Temple says the pyramids
 of Egypt were built by them, that is
 the tools of the ~~those~~ ^{poor} who were employed in
 these stupendous monuments of human industry
 were ~~supported by their being~~ ^{enabled to sustain} ~~by their being~~ ^{this} ~~by~~ ^{by} ~~the~~ ^{by}
 the strength they derived from those active



they lived

Condiments. The Jews while ~~prisoners~~ⁱⁿ in Egypt
~~in~~ ~~desired~~ ~~them~~ were enabled to ~~be~~ ~~the~~ ~~these~~
perform the severe exertions of their task
masters in a hot sun by feeding upon the
same Articles. It is to be lamented that
~~they~~ they are likewise moderately non-
-rishing, and they retard ^{the} digestion of all
the Aliments that are taken with them. ~~Apartida~~
~~belongs to this class of Condiments.~~

~~Related to these Aliments Condiments~~
is The Jume Apartida contains Buts chiefly
by its Stimulating power upon the ~~Stomach~~
-tum. It is ~~used~~ ~~chiefly~~ ~~by~~ ~~the~~ sometimes
~~used~~ ~~to~~ ~~with~~ ~~Buts~~ rubbed upon the grid:
-rion, or upon the dish in which beef
Stakes are placed. It is likewise used with
some kinds of fish. our Grose in his speech
of a nation of India who abstain wholly from
animal food, and fermented & spiritous liquors,
that mixes this Condiment with all their

Aliment. This breath & perspiration he says smell of it.

It is somewhat remarkable that whole Nations have been distinguished by their Attachment to some one of the Condiments that have been mentioned. The Germans prefer vinegar, - the French Sugar, - the English butter, and the Spaniards Onions, above all other Condiments in this Aliment. The Americans more wisely make use of ^{all} them all.

The aromatic and acid Condiments are very numerous. They are parsley - sage, thyme, sweet marjoram - Dill. Aniseed & fennel seed, tansy - ^{mustard} - saffron - cloves - mace, Cinnamon ~~and~~ Nutmegs, and ~~some~~ some others. The Germans use a great quantity of the aromatic herbs with their Aliments. The kitchen of Frederick the 2nd of Prussia was ~~was~~ so filled with bottles containing them, that it resembled

✓ They are particularly useful when
mixed with what are called the cold
fruits. They retard the ~~rapid~~ progress of
fish, and the much milder to ^{a rapid} putrefaction

Recipe for Curry -

an Apothecary's Shop. They improve the
~~flavor~~ taste of Aliment, increase the
discharge of saliva, and help digestion by their

stimulus upon the stomach. useful in
West India - why? ^{chiefly}

The Acid Condiments are ^{chiefly} allspice -
black and Cayenne pepper - Capsicum, An-
= bils - Cardamom ~~leaves~~ & Coriander seeds - ginger
mustard and horseradish. They are used
chiefly with food that is ~~diff~~ hard of diges-
-tion both of a vegetable & animal na-
-ture. ^{mouth, throat} They stimulate the tongue, fauces &
Stomach, and through ~~this~~ means act
powerfully in giving tone to the whole
System.

all these Condiments are ^{generally} ~~sometimes~~
taken singly, but they are sometimes mixed.
~~as in Salmagundi - ~~leaves~~ and ~~seeds~~ of these acids~~
and Sugar are united in certain preserves,
Butter and Sugar in certain Sausages, and



Salt^d meat - pepper - and certain other spices
in Sausages. —

[illegible]



There are certain Condiments which
are used to improve the taste & stimu-
-lating qualities of the liquor we take with
our food. These shall be taken notice of
hereafter. —

~~Among~~ There are ^{two} ~~three~~ articles of which
compose a part of the Diet of the inhabitants
of the United States, which though not
entitled to the propriety ^{of} any nourishing
qualities, yet from the matters that
are mixed, ^{or} ~~and~~ taken with them, are
entitled to a place in this history of
Aliments. They are Tea and Coffee.
A Revolution has taken place in the ~~use~~
-~~use~~ and Discours of Europe & America since
the introduction of these Articles into
general use. ~~They have spread the Consump-~~
-tion of

[The text on this page is extremely faint and illegible, appearing to be a handwritten letter or document.]

~~Excessive food and Ardent Spirits, but~~
~~they have~~ ^{they} have ~~transferred~~ ^{transferred} in many
 instances, the diseases of the blood vessels
 into the nerves. From the general use
 of tea, the Hysterical Disease which was
 once confined to high life is now often
 seen in the kitchen, and in the huts
 of poor people. But let us state the facts
 fairly that relate to this subject. The
 most of the diseases which have been
 ascribed to tea and Coffee might perhaps
 be ascribed to their being taken too strong,
 or too often, or by themselves, without
~~and~~ a due mixture of sugar & cream
 or milk, or bread and butter, ^{with them} whereby
 they are left to ~~act~~ ^{act} with ~~an~~ ^{an}
 undiluted force upon the nerves of



~~There are many Articles of~~
~~the body. There are many other thin-~~
~~-nesses, &c. which if taken without~~
~~the~~ Meat - Cheese and butter if
^{in excessive quantities or}
taken ~~by themselves~~ without bread,
and many other Articles of Diet if
taken without their ^{customary} ~~usual~~ mixtures,
would be equally hurtful to the
Stomach and the ^{in exess or} whole System with
tea and Coffee taken ^{by themselves}.

In this favor, let us recollect ^{how} ~~that~~
much they have ^{lowered} the Consumption of
animal food and ardent Spirits, and
^{have} ~~added~~ ^{to the flock of innocents} greatly to the pleasures of social
life and convivial pleasures. & ~~what~~
~~and a lot seldom sit down at a - fondness~~
for tea and Coffee and an undue Attachment
to the knife and fork, and the bottle

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are rarely to be met with in the same person. ^{From their gentle & grateful stimulus} They are peculiarly agreeable & useful in the following states of the system.
 1 After great fatigue of body and on mind. ~~From its~~ the influence of Coffee upon the latter, it has ~~been~~ ^{is} called by the french "Caféin intellectuel," or intellectual Drink.

2 After a full or oppressive meal. Coffee is usual resorted to by the french to relieve this oppression.

3 After intemperance in Drinking. ^{Coffee is used with}
 4 After taking Opium. ~~It~~ [↑] removes the ~~the~~ ^{the} ~~most~~ ^{best} ~~effects~~ ^{most} to sickness and languor which sometimes follow the exhibition of that medicine.

5 In a depressed state of the mind from any Cause.

6 In Cases where Wakefulness is required

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either for study, or attendance upon
sick people. They should be made a
little stronger than usual for this
purpose.

7 In cases where it is necessary to resist
moderate degrees of heat or cold. Tea
revives both the body & mind when
depressed by the heat of a long sum-
mer day, and Coffee fortifies the
body against the ordinary cold of
winter. I knew a ~~country~~ physician
who ~~was~~ ^{desires great success} ~~lost~~ ^{in his sufferings}
~~from cold by drinking a~~ ^{made it a practice to drink}
pint of strong Coffee when he was
obliged to expose himself by a long ride
in the country in ~~cold weather~~ ^{the}
~~winter months~~ cold weather.

The black teas, as they are called,
particularly the Soucheong are the

[The text on this page is extremely faint and illegible. It appears to be a handwritten letter or document, possibly containing a list or a series of paragraphs. The ink is very light, and the handwriting is cursive. No specific words or phrases can be discerned.]

best for ~~drinking~~ breakfast. The
 more cordial tea are best ~~drinking~~ taken
 = Cated to restore the body and mind
 after the business of the day is over.

That Coffee is best which has been
 well dried by age, and moderately roasted.
 The Arabians and the Turks prefer it
 bruised, instead of being ground, before
 they boil it. It is most cordial when
 taken without sugar. The Turks
 use it only in this way. —

1. The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

2. The second part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

3. The third part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

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20. The twentieth part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

In treating of the
 The salubrity, of Aliment ~~and Drinks~~ ^a ~~is~~
~~depends upon~~ we must not pass over ~~the~~ in-
 timate the nature and Condition of the Vessels
 in which they are preserved, and prepared for
 use. They are preserved in a sound state in
 wooden vessels provided pains are taken to keep
 them clean, by washing and exposure to the
 air. The vessels employed in cooking, or
 in subjecting food to the action of fire are
 made of earth, and metals. ^{of the former,} ~~the common~~
~~earthen ware is not liable to be acted upon~~
~~by acids or oils.~~ - glass, and China ^{are} ~~also~~
 sometimes employed, but they
 are too brittle and expensive
 for this purpose. The common earthen
 ware of our Country when properly made ~~in~~
 should be preferred to them. ~~This is~~ the
 preservation of lead which is mixed with it,
 is not liable to be acted upon by acid, nor
 fat substances. of the metals, ^{silver, tin,} ~~brass~~ ^{copper,}

✓ it a portion of the Copper, or by ex-
-posing the Copper to the action of the
substances which dissolve it, ^{renders} ~~produces~~
the persons who use it liable to ^{diseases} ~~to~~
of the Stomach bowels and Nerves. When
the hurtful effects of ^{both tin and} ~~both tin and~~
~~iron~~ ^{are} ~~compelled by necessity to~~ ^{not}
Copper vessels are much refined by ~~iron~~.
~~being the~~ permitting elements to remain
in them after they are taken off the
fire, and ^{exposed to} ~~exposed to~~ the air. The in-
-fluence of the air in aiding oils & acids to
act upon Copper is evident from those
parts of them on being most affected by the
Copper which come into contact at once
with the air & the Copper. Simple water is
Vessels of Iron should be preferred to all other metals
for the purpose of cooking. The parts ^{of them} which
are dissolved by acids or abraded by the matter
which ^{that} are put into them, are inoffensive, &
sometimes useful to the body. To obviate =

in preparing food for the table.
~~Fe & Iron~~ are sometimes employed in the
 silver ~~is~~^{life} costly & it should not be
 employed for this purpose, for ^{the} with
 the alloy ~~which~~ of Copper which is mixed
 with it, ^{by dissolving} ~~is~~ is soluble in acids and oils, ^{and}
 it renders it an unsafe implement of cookery.

~~Copper is usually employed with a thin covering of tin over it for culinary purposes, but the tin soon wears away, and by mixing with the food produces the diseases of the human stomach, bowels & nerves.~~

the ~~base~~ stomach.
Tin when pure is insoluble in acids and oils,
but as it is ^{Sometimes} ~~generally~~ mixed with more or
less arsenic, lead, copper, or arsenic all of which
are acted upon by both those substances, it
should not be employed as a culinary vessel.
It is least harmful, or unsafe when used as a kettle.
Copper is usually employed with a thin
covering of tin over it for culinary purposes,
but the tin, when admitting it to be pure,
soon wears away, and by mixing with
✓

= the taste, or Dark Colon which Iron
repels ^{imparts} to certain Articles, the inside
of them is sometimes lined with Zinc.
which

It remains now to mention the
liquors we take with our solid Aliment.
A relish for them, is an instinct of
Nature. They serve many valuable pur-
poses in the body. ^{They} ~~each~~ ^{direct} ~~directing~~ to
a certain and necessary degree, the saliva
and gastric juice, ~~as~~ ^{obviating and washing}
~~conveying out of the body, and~~ and thus
^{aid} ~~aiding~~ them in disposing the food. They
^{likewise} obtain acrimony, in the first
passages, ^{or} wash it out of the body
through the passages ~~opened for it~~ ^{such}
kidneys or the pores of the skin, and
many of them ^{as are of a} ~~many~~ ^{acrimony} ~~acrimony~~
-ing nature, and assist in the support
of health and life.

~~These~~ The liquids we take with our food
are water - ~~Beers wine & spirits~~ and fermented
liquors and Ardent Spirits.

Water has been divided into ~~spring~~ ~~pumps~~,
~~and rivers or flowing water~~ - from all its
sources when alike ~~pure~~ pure, possesses the
same qualities. It may be known to be
pure from the facility with which it dissolves
soaps, and boils vegetables - from its having no
taste, and no peculiar taste, - from the difficulty
with which it freezes; - from its being soon hot
and ^{soon} cold, from the healthy ^{inexp} ~~state~~ of the Animals
that drink ^{it}, and ~~it~~ from the number of fish
that swim ⁱⁿ it, and from the verdure, &
fertility of the shores that are washed by it.
It is necessary to its ~~use~~ being perfectly agree-
-able that it should contain $\frac{1}{28}$ part of

Atmospheric Air and a Cubic inch of
 Carbonic gas in a 100 parts of the water.
 Boiling it deprives it of these Airs, and ren-
 =ders it less pleasant to the taste. It is from
 the want ^{or deficiency} of these Airs, that Snow water is
 so insipid, though it possesses otherwise
 all the properties of pure water. Rain water
 is most pure in the Winter & Spring
 from the Air in those seasons being most
 free of exhalations and ^{other foreign} ~~the eggs and winged~~
 of insect matters.

What are called hard waters are made
 so by the solution of certain Salts, earths
 and metals in them. This is not the place
 to mention the means of detecting the presence
 of those matters, but it will not be foreign
 to the design of this work to remark that
 many ^{will} more have been ascribed to ~~stones~~ ^{them}

The first thing I noticed when I stepped out
of the house was the cool breeze. It felt like a
welcome hug after being cooped up inside. The
sun was shining brightly, and the birds were
singing their hearts out. I took a deep breath
and felt a sense of peace wash over me. The
world was so beautiful, and I was so lucky to
be here. I walked down the path, feeling the
grass under my feet. The flowers were in full
bloom, and the colors were so vibrant. I
stopped for a moment to admire a small blue
flower. It was so delicate and beautiful. I
touched it gently, and it felt like it was
talking to me. I smiled and continued on my
way. The path led me to a small pond. The
water was so clear, and the lily pads were
floating so gracefully. I sat on the edge of the
pond and watched the fish swim. They were
so small and so cute. I felt like I was in a
secret garden, a place where time stood still.
I stayed there for hours, enjoying the view
and the peace. It was a perfect day, and I
was so grateful to be here. I took a picture
of the pond and the flowers. I wanted to
remember this moment forever. The day was
so beautiful, and I was so lucky to be here.
I walked home with a smile on my face.
The world was so beautiful, and I was so
lucky to be here.

The water is
 than are just. Where ~~they are~~ not offen-
 -sive to the taste ~~from~~ from any of its
 mixtures, nor impregnated with putrid
 matters such as the excrements from privies
 and certain manufactures in large cities,
~~it~~ ~~they~~ seldom does any harm. It is certain
 the gravel and stones are ^{not often} ~~seldom~~ met with
 in Countries in which waters are drunk
 that abound with Calcareous earth than
 in Countries in which this is not the
 case. I ~~do not~~ ~~happily~~ for ~~no~~ habit
~~disorder~~ Should the ^{saline - earthy or metallic} ~~substances~~ that have
 been mentioned ^{which are contained in hard water,} be ~~originally~~ ^{originally} offensive to
 the system happily for ^{the} ~~no~~ habit of using
 it ~~so~~ after a while, deprives ~~them~~ ^{it} of
 their ~~harmful~~ qualities.
 Water taken very cold, in a large
 draught when the body is heated by labor.

[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]

~~is~~ produces many sudden deaths
every year in the United States, and where
this is not the case, it ~~can~~ ^{often} induces acute
and Chronic diseases. To prevent these fatal
and disabling consequences from ~~the~~ Drink-
-ing water in the under the circumstances
that have been mentioned, let no ^{cold} water
be drunk while the body is proter-
-naturally heated, but if the intensity of
thirst forbids the delay that is necessary
for this purpose, let the vessel ^{provided}
it be made of ~~a~~ metal (or of an earthy
material) be grasped closely with both
hands for two or three minutes.
~~A portion of the heat~~ This practice
will act in two ways. It will carry
off a portion of the heat of the body,

[Faint, illegible handwriting covering the page]

and it will convey it into the water,
and thus remove ~~the~~ or lessen the
dangers of drinking it. If this direction
^{impose} ~~lay~~ too long a restraint upon the
thirst, let the hands and face, or
feet, or all of them be washed with
the cold water before it is tasted. A
large portion of the heat of the body
will thus be carried ^{off} ~~out~~ of it, and ~~one~~ ^{the}
principal cause of the ~~the~~ bad effects of
the cold water by that means be
~~obviated~~. It is because horses felt
~~travelling~~ ^{the steam of} their feet in water before they drink ^{into} the
into which they pass before they drink,
that they are never injured by it, and
it is ~~from~~ ^{when drunk by} the Pump water is equally
inoffensive, ~~to~~ ^{to} horses from the practice

[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]

previously
of throwing buckets full of it over their
bodies when over heated by labor ^{it coupled with sweat} before
~~they are permitted to taste it.~~

It is a common mistake to suppose
that Cold Water in order to allay thirst,
in ~~hot~~ and Cool the body in warm
weather should be very cold. ^{so far} ~~It often~~
from having those effects, it often excites
both heat and thirst. ^{Labor} ~~Any~~ intelligent
house Carpenter in Philad^a has discovered,
^{but} ~~by long and the experience of many~~
~~from laborers has proved that labor~~
^{best most easily}
is sustained in the hottest weather by
drinking water that has stood for
some time in the sun, so as ^{acquire} ~~to~~
nearly the temperature of the air. ~~a~~
^{By allaying}
~~It allays~~ thirst when ~~is~~ taken in

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side. The text is organized into several paragraphs, with some lines appearing to be underlined. There are significant stains and foxing throughout the page, particularly along the right edge and bottom.]

this way, ~~and it~~ ^{it} saves much ^{walking or} time which is often lost in ^{travelling} to a distant Spring or pump for fresh supplies of Cold water.

It is a common practice with some people to take a draught of Cold water just before they go to bed, or as soon as they get up in the morning. This practice probably originated in intemperance, & has ~~been~~ ^{been incorrectly} ~~adopted~~ ^{adopted} from ~~an old belief in~~ ^{that it conduces} ~~its conducing~~ to preserve health. The reverse of this ~~is true~~ ^{It may be practised} ~~It tends to~~ ^{It may be practised} ~~dilate the~~ ^{It may be practised} ~~stomach, and to~~ ^{It may be practised} ~~lessen the appetite in~~ ^{It may be practised} ~~the morning, & to induce~~ ^{It may be practised} ~~the~~ ^{It may be practised} ~~the~~ ^{It may be practised} ~~stomach, and to~~ ^{It may be practised} ~~impair the appetite~~ ^{It may be practised} ~~and digestion.~~ ^{It may be practised}

V Water constituted the only Drink of
the Roman Armies while traversing
the hottest Countries; and by this
a Cause to be mentioned hereafter they
were preserved from all those Diseases
which afflict or destroy so great a
proportion of the Armies of modern
nations.

~~for years~~
~~without food & exercise without producing~~
~~these effects for years, but for people for~~
~~only the stomach seldom fails~~

~~water is sometimes~~
~~nutritious~~
Certain matters are sometimes added
to water such as milk - ^{Vinagar,} molasses - and
Syrops of different kinds, ^{and fixed air in} in order to render
what is called Artificial Seltzer ^{water.}
~~it more exhilarating as a drink. They~~

They render it more pleasant, and add
to those qualities in it which enable it
to support animal life. Vinagar & V.

Simple as water appears to be, it
contains some nourishment. This is
inferred from life continuing much
longer in Animals that have access to
water, ~~than~~ without food, than in those
that are deprived of both of them. -

See Poets as well as physicians have
lavished their praises upon this beverage

V But loud and universal as the praises of water
have been, it is ^{not} always the most proper drink
with our meals. From its promoting the
digestion of food more rapidly than any
other liquor, it disposes to the frequent
renewals of appetite, and from its ^{propeing}
as stimulus, it prompts to take a greater
quantity ^{of food,} than the system requires.
~~unseasonable, and from the insipidity of~~ ^{water}
~~to the taste, &c.~~ It is from these effects
of water that persons who drink it alone
with their meals, ~~are~~ have sometimes
been remarked to be great ^{feeders.} ~~eaters~~. For
those reasons, and from the insipidity of
water to the taste, other liquors have been
resorted to as more salutary and
agreeable.

+ ^{note} This has been proved by many
experiments.

of nature. It was the first drink of man, and it is preferred in infancy & childhood ~~to~~ to all other liquors. It is preferred likewise in all those states of the body in which ^{violence has been done} ~~nature suffers violence~~ to nature, as in ~~fever~~ extreme thirst, from labor, ^{or} a fever, and after intoxication. ~~That these are habits that tell for the habits of civilized life have rendered other liquors, agree- able to ~~many~~ some of them and instances more salutary. ~~to many~~~~ These liquors are

+ a note

Dr Beattie mentions in one of his letters that he once dined with Dr Johnson at his Sophia Reynolds, and that he ate more meat at than he could eat in ten meals. Dr Johnson drank nothing but water.



fermented and distilled. The former include beer. Cyder - perry - and all the different kinds of wine. The latter consist of ~~Rosin~~ Ardent Spirits. I shall make a few remarks upon each of them.

All the grains called Cerealia afford by ~~soak~~ brewing - an ~~malting~~ brewing a fermented liquor known by the name of Beer, but the grain ~~is~~ most commonly used for this purpose is Barley. ^{the} Beer made from it contains a large quantity of saccharine matter and affords a good deal of nourishment. It is upon this Account, much used and drunk to the poor people in some Countries. It is ~~the~~ ^{an excellent} nourishing

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~~for~~ Drink for labourers, but too nourish-
 ing for persons who lead indolent and
 sedentary lives. ~~That kind of~~ ^{ale and} ~~all~~
~~liquor which is called~~ Porter has
 several Advantages over the common
 table beer in being more cordial, ^{it}
 strengthening the Stomach, and in retaining their
 wholesome Qualities in warm weather.
 They may be drunk diluted with
 water during the summer months, ^{or}
^{one part of either of them may be mixed}
~~or they may be exposed with from~~
~~three to 4~~ ^{parts of} ~~porter & in this form mixed at~~
 with 8 of water and half a pint of honey
 or bawlfus or half a pound of Sugar and
 a little ginger, and put into bottles where it
 undergoes a fermentation & is fit for use in
 24 hours.



Cyder contains a good deal of Saccha-
-rine matter blended with a pleasant
acid, and diluted with water. It is
gently stimulating & nourishing, ~~but~~
when mixed with water it makes
a pleasant Summer Drink. It has
been said to be hurtful to persons
predisposed to Gout & Rheumatism.
This probably depends upon its acid,
~~which~~ for upon eating rich acid
but iron in it which obtunds this
acid, it is said not to ^{write these} ~~have the best~~
ing diseases, but to prevent them.
Two barrels of Cyder ^{fresh from the press,} boiled into one
and kept in a cool Celler for
2 or three years make a pleasant

1870
The following is a list of the
names of the persons who
were present at the
meeting of the
Board of Directors
of the
City of New York
on the 1st day of
January, 1870.
The names are
as follows:
1. John A. B. C.
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3. G. H. I.
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1030. T. U. V

Liquor which has obtained the name
of Pomona wine. It may be drunk
by itself, or diluted with water.

which
The wine is obtained from the grape
has as many names as it ^{has} ^{its kinds}
native countries. ~~as~~ ^{they} all contain
more or less saccharine matter - an
acid - a spirit - an unfermented matter
called must, ~~and~~ ^{diluted with} water. They have
been divided into strong - Sweet - ~~acid~~
and acid. To the first ^{such as} belong Madeira,
Sicily - Less Hayal - Teneriff & Lisbon.
To the second ^{into sweet such as} belong Tokay ^{tert -} Frontinac,
and Malaga, - into Acid such as
Port - Claret, [&] Burgundy - and acid such
as muselle - Rhenish and hock. They

V Qualities according to their age. They
~~should more~~ The older they are, the
less easily are they decomposed by
the stomach. The strong wines are
in their most perfect state, when they
are between six and seven years old,
they at which time they should

be kept in bottles. ~~not more than~~
~~They should be taken sparingly in the interests~~
~~two or three glasses of them~~ Intoxicants must
~~be~~ when swallowed slowly &

are stimulating or and even existing according to the greater or less quantity of such active matter - and must differ in the way they contain. They possess very different

These ~~strong~~ wines are ^{the less impaired by} most ~~evicted~~ too the Climate of the United States than any others, ~~which~~. They may be taken with

water, or by themselves. The best Wines three glasses of them should be taken with a meal upon - are nourishing, and make with a bis- ordinary occasions in an undiluted state, but a less quantity - fruit or crust of bread a pleasant supper.

~~with~~ should be preferred - The Acid and Astringent wines are most agreeable when taken with sugar ~~or~~ water. They are improper in all gouty and Rheumatic constitutions. ~~##~~

There are certain imitations of the product of the vine which are used as substitutes for them. These are



I know a contrary opinion has been en-
-tained of Condiments. Food has supposed
to be wholesome in proportion as it is simple,
and taken without Beer or Wine.
or prepared without seasoning. But this
opinion is contradicted by the experience of all
ages. The ~~single~~ ^{the analogy of the gods of baptism &}
~~instead~~ ^{the experience of all} the tongue is an important ~~part~~ ^{organ} in sustenance
the instrument upon which the
vital act ~~which~~ ^{that} support animal life.
as they act ~~in~~ ^{on} ~~the~~ ^{this organ} upon this organ
every part of the body. This is denoted by a
single exp^t. ~~one~~ ^{one quarter of quart.} wine ~~is~~ ^{when}
sipped, and thus permitted to lie for sometime
upon the tongue will produce intoxication. ~~that~~
is enough to do so ^{produce} that effect when taken
into the stomach. But this stimulates upon
the tongue is a pleasurable one, even pleasant when
moderate is friendly to life and health & life.

Light & shade - contrast in height & figure
nothing is independent, ice and melting spheres
alone in the works of the Creator. nature.

Contrasts & mixtures form all that is beautiful
and agreeable in the works of nature. They
condiments appear to be intended to act upon
in the full way. They act upon the tongue.
This organ is

mead, mulhishin and what are called
 home made wines. ^{mead} ~~the two former~~ ^{first two}
~~is~~ made of ~~very~~ one part honey,
 with four parts of water fermented with
 aromatic herbs, or berts. ^{It is according} ~~the mulhishin~~
 and phasant hummer drink. mulhishin
 is made of one part honey & two of water.
~~It is less agreeable~~ It is too viscous to be
 taken in a large quantity. ^{want of} ~~all the~~
 the soft summer fruits of our country,
~~the~~ afford by fermentation ^{with the} ~~where a~~
 addition of a small quantity of sugar,
 and a little brandy, are agreeable liquor
 in assembling the wine of the grape.
 That from the Currant is generally
 preferred to all others. [It is prepared
 in the following manner.

V Meals, and always in a distant stall.
To remove the debility and fatigue which
occur at those times, they are generally
offered to visitors, but a Cup of chocolate,
a biscuit, ~~or~~ a sweet cake, or a little
fruit should be preferred to them. The
Franklin when a young man surprised
his brother fellow labourer in a printing
office in London whom "he saw swallowing
porter in the intervals of their meals
by eating occasionally a roll of bread.
"You exhilarate yourselves (said he
to them) by taking the spirit of grain
only, I am refreshed and strengthened
by its substance." —

[Faint, illegible handwriting throughout the page, likely bleed-through from the reverse side.]

Distilled Spirits are obtained from all
 the grains & particularly from Rye,
 from wine, ~~and~~ but chiefly from
 the Sugar cane. They contain a small
 quantity of Acid, and a large quantity of
^{Spirit}
~~water~~ diluted with water. They do not
 contain a particle of Suckarine matter;
 of course they do not afford any ^{more} nourish-
 -ment to the body than water. They
 are hurtful in every form in which
 they are habitually used, whether alone
 or in what are called Things, toddy or
 grog. They are least hurtful in punch,
 for in this liquor, the Acid of the limes
 burns the Spirit, while the water dilutes
 it, and the Sugar supplies it with a small
 portion of nourishing matter. ~~This is~~ I
~~and~~ have endeavoured in another work,

+ This thermometer was published by
the author in the Columbian magazine
in the year

to point out the evils which these ban-
-ful liquors have brought upon the body
and Soul of man. Had I a thousand
pens, and each of them furnished with
all the powers of ancient & modern elo-
-quence, they would not be sufficient to
describe in suitable language the numerous
~~and awful~~ diseases of and Vices that have
followed their use in every part of the
world. + I shall only subjoin here a
concise ^{amount} ~~view~~ of ^{this} ~~the relative~~ influence upon
^{health} ~~mental~~ and morals with a relative view
of other liquors upon the same objects in
~~the form of a~~ upon a Scale which I
have called a moral & physical Thermo-
-meter. + —

V from a tincture of it being absor-
-bed by the Lymphatics of the Stomach
into which it descends in large quan-
-tities - it injures the voice when used
in the form of Snuff by obstructing
the nose -

1

[Faint, illegible handwriting throughout the page, possibly bleed-through from the reverse side.]

the tumbler of brandy ^{bottle} & the glass
with the cigars and the flask of brandy,
with ^{prompt} ~~oppression~~ and Authority from
the hands of your Children! Save the
human figure & character in the persons
of your posterity that are to follow us from
~~those the vices that impend them from~~
~~the habitual use example of their fathers!~~
~~and establish~~ foes to health and life. They
are greater enemies to our Country
than the late vices of the British Council,
^{or} ~~and~~ the decrees of the French Emperor at
Milan. -

[The text on this page is extremely faint and illegible. It appears to be a handwritten letter or document, possibly in cursive, with several lines of text visible across the page. The ink is very light, and the paper shows signs of aging and staining.]

Having enumerated the principal Ar-
 -ticles of Aliment and the Drinks in
 use in our Country, I proceed now to
 make a few remarks upon the manner of
 using them, so as to derive the greatest ad-
 -vantages ^{from them} ~~and to suffer the few fewest~~
~~inconveniences from it~~ as the means
 of preserving health and ~~pro~~ life.

I am aware that the long and
 healthy lives of many people who have
 lived ^{excessively} intemperately both in eating and
 drinking, ^{but defiance} ~~set aside~~ are opposed to
 all principles and rules upon this subject.
 But ~~the~~ Persons who are influenced in their

Opinions of the ~~advantages~~ inefficacy of
 Temperance upon health & life by those
 solitary instances, ^{from a desire of becoming evidently} ~~resemble~~ men who
 waste ^{this estate in} ~~a~~ lottery tickets purchasing
 waste ^{lottery tickets in} ~~capitals in~~ lotteries ^{without} ~~without~~
 lottery tickets in lotteries, ~~they~~

V nor is ^{it} any objection to the utility
~~or necessity~~ of Rules for the preserva-
-tion of health and life that many
persons feel no disagreeable effects
from ^{the daily} transgression of them for
years together, as far as they relate
to Aliments and Drinks. ~~to~~ The
patient Subversion of the Constitution
to ~~these~~ these Acts of Violence that
are committed upon it, no more
moves them to be innocent, than
a quiet conscience is a justification
of an immoral life. Such persons
usually snap, to use an English
phrase, that is, die suddenly, ~~for~~
or they perish in by little diseases,
or pass a sickly & miserable old age.

without considering what an immense
number of people are made poor by them.

I am ~~more~~ further that age, ^{occupation,} season,
climate, ~~occupation~~, ~~habits~~, idiosyncrasy,
the disposition of ~~various~~ parts of the body to
perform vicarious offices for such as are
~~weakened by~~ predisposition ~~to disease~~ by
debility to disease, ^{and above all habit, combined} ~~also~~ exert a powerful
diversion from the uniformity of
~~influence upon the~~ operation of diet and
drinks upon health and life, but after
making the largest allowance for them all,

I believe with the exception of one person in
twenty the relations of Cause and Effect ^{by means of impression} in the
operation of human species are nearly as uniform as

they are upon vegetables and inanimate
machines. A definite ^{portion} ~~force~~ of heat and
moisture ~~is~~ necessary to healthy vegeta-
-tion, and a ^{or precise} definite force of wind, and

Water produces the greatest possible effects
upon a Mill and a boat, that are com-
-parable with ^{this} ~~the~~ preservation of ~~them~~
~~themselves~~ from injury or destruction. The
same thing is true, with respect to the
agency of Aliment and Drinks upon
the body. — Even habit ^{to} ~~the most~~ powerful

2 These remarks being premised I
pass on to mention certain general
rules upon this subject
which apply nearly alike to a great
majority of men kind. Before we enter
upon them, it may not be amiss to inquire
why are we subject to the ^{daily} ~~frequency~~ returns of
Appetite, and why is not one meal sufficient to
support our bodies for a week, a month, or a
longer time? I answer ~~for this~~ ^{we are subject to}
the daily returns of Appetite, ^{for the} ~~we are subject to~~ ^{following} ~~most~~ ^{obvious}
purpose of ~~it~~ ^{they} ~~exercising~~ multiplying and
circulating the pleasures of the taste. ~~2d~~ ~~of~~
2. ~~It imposes~~ ^{They impose} ~~the~~ ^{on}
~~penetrating knowledge~~ ~~and~~ ~~total~~ ~~exhaustion~~

7 V The Appetite is sometimes an unsafe Guide in regulating the Quantity of Food, inasmuch as it ~~is~~ often ^{exceeds} ~~disproportioned~~ to the Strength of the digestive powers, and the exigencies of the System. It is ^{a good practice} ~~then always~~

always to Abstain from eating, where there is the least ^{hesitation} ~~doubt~~ ^{dilation} whether enough has been taken.

As in morals he that doubts, and acts, is condemned, so ^{he} that doubts and eats, ^{is} never fails to suffer by it.

2 The ^{Taste} ~~Appetite~~ is likewise an unsafe Guide in determining the Quality of our Aliments, for we sometimes ^{find} such of them as are agreeable to ~~the Taste~~ ^{Taste} that ^{however} produce disagreeable Effects in

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✓ The of food and Drinks should regulate
4 ~~this~~ quality, & Much less of meat should
be eaten than of vegetables, and less of
bread, than of fruits. ~~As~~ while two
pounds of Beef, or Mutton, and the same
quantity ^{bread} of ^{table} vegetables and ~~drinks~~ are suffi-
-cient for a labourer for four & twenty
hours, a Persian four times the quantity
of ^{garden} simple water vegetables with simple
water may be taken ^{by him} with safety in the
same time. A Persian, Chardin tells
us, feels no inconvenience from eating
thirty pounds of Water melon in a day.
Fire and fat influence the quantity
of food necessary for the support of
animals life. A large ^{body} ~~man~~ requires
more to nourish it than a small one,
(and fat people, from the less diameter

the ~~system~~ Stomach.

By even the cordial reception which the Stomach gives to certain ali-
-ments is not always a sign that they are ~~un~~friendly to health, for we sometimes observe head-ache - Sleepi-
-ness, and ~~various~~ ~~upon~~ febrile symptoms induced by aliments that ~~for~~ excite no sensation in the sto-
-mach. — turn back to 4

or capacity of their blood vessels, require
less Aliment than ^{such as are} ~~persons~~ under
equal circumstances.

A mixture of ^{which disagree} ~~certain~~ Aliments ^{agree} with each other
in the Stomach ~~better than others.~~
Should be avoided. ~~The Fish and flesh of~~
land and water Animals are often
indigestible when taken together. - The
same thing is true of milk & fish. It
is probable all ~~the~~ Aliments & Drinks
have the same Affinities ^{or repugnance from} to each other
that are observed in chemical bodies.
They can only be ^{found out} ~~discovered~~ by experience,
but this discovery will amply reward the
labor in making it.

Great Advantages will arise from making the
7 ~~The more we compare the~~ ^{the} principal meal every day upon one Dish. The
Appetite for food should be regulated by

a note text of Scripture

+

55:1

the same laws that are imposed upon
the sexual Appetite. ~~They are both as~~
variety in the objects of both, leads to
excess, and does equal violence to the
constitution. How often do we observe
the appetite
~~person~~ apparently satisfied with one
dish, excited afresh by a new one, and
when indulged, the ~~consequences of a~~ ^{language and its con-}
sequence in indigestion and plethora
brought upon the system. This ^{limitation} ~~frugality~~
of the appetite to one dish
is ~~should extend only~~ is meant to
^{only} extend to animal food. A variety of
~~various~~ vegetables may be taken with
it with safety and advantage.

5

1844

1845

1846

1847

1848

1849

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1855

1856

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1860

55.2
55.

55.2 There sometimes see a description of persons
-times who cannot eat fish, eggs, or
certain fruits. —

5 certain Aliments. that are grateful to
the taste, and ~~inoffensive~~ acceptable to the
Stomach produce disagreeable effects in other
parts of the body. the head aches, and
eruptions upon the skin are sometimes
induced by Aliments that excite ~~no~~
Irritation of any kind in the Stomach.

These general remarks being
premised, ~~I go on to say~~ we are led in
the next place to inquire into the times
(and manner of taking our Aliments).

f. There are in general three, and in
some families four times of ~~the~~ eating
in a day. The ~~different~~ business & duties
of civilised life have made these times

of eating necessary, but there is reason
to believe that man like the horse,
and some other animals was intended
to eat always, or rather a little, and
often. Children, and old people ⁱⁿ ~~who~~
whose the ~~same~~ instincts of childhood
are revived, bear with difficulty the
intervals between regular meals.
The Indians ~~likewise~~ who live agreeably
to nature, eat often when they abound
with aliment. They were wise from
their beds ~~as~~. Bartram tells us in his
travels through the Southern States in
order to eat in the middle of the night.
The constant action of a small quantity
of food in the stomach is more favoura-
ble to the agreeable circulation of the

1871

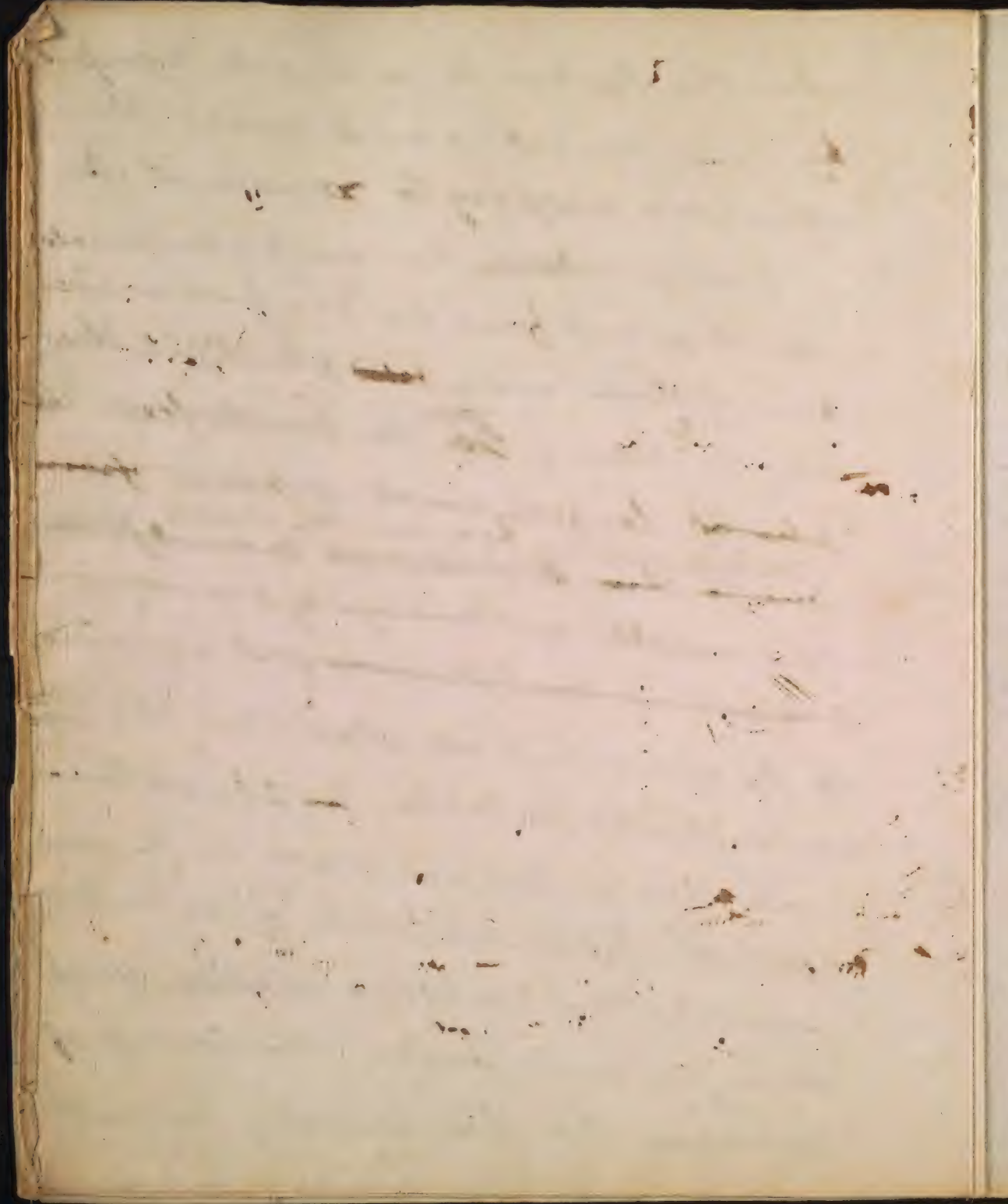
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568
blood, and the agreeable excitement of
the nervous system, and of course more
favourable to the good health, than
the alternate languor & excitement
in which follow an empty stomach,
and a full meal. A small quantity
of food moreover when digested is more
easily thrown out of the stomach than
a large quantity, and in a much shorter
time. I suspect the general &
& intemperate use of ardent spirits,
opium and tobacco has arisen from
the ^{long} intervals between meals which
makes their stimulus necessary to
supply the absence of the stimulus
of food. It is true they are often called
for after a meal, but it is only

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side. The text is arranged in approximately 15 horizontal lines across the page. There are several dark ink spots and smudges visible, particularly in the center and lower half of the page.]

When the system is so much depressed
by soup in eating as to render this
stimulus necessary to remove it. But a

Custom ~~which~~ has divided our meals
into three and four in Dayⁿ has made
one of them more ~~rich~~ plentiful than
all the others; ~~In the United States this~~
~~the largest meal is taken from~~
~~at different times between the hours~~
~~one to three. Also between four and~~
~~the middle of the day. of course, and~~
~~3 o'clock in the afternoon. it remains~~
to be determined at what time this large
meal should be taken. ~~In~~ The old Roman
made this principal meal in the evening
after the labors and studies of the day were
finished. The Arabians likewise tell us,
follow the same practice. The coolness of
^{evening} the air in this hot country revives the



Appetite, and renders society ^{less} ~~more agreeable~~
disagreeable from a number of people
crowding around a table. ~~It is~~ The
rest which follows a full meal in
the evening ^{The Dismissal from} ~~favours the~~
~~mind~~ ^{from the} ~~favours the~~ cares of the day ~~increases~~
^{the} gives a higher tone to convivial
pleasures in the evening than at any
other time, and those we know ~~add to~~
are calculated to promote the health of
the body. The rest moreover which
follows this meal tends very much
to promote digestion. Of this experience
furnishes with many proofs. Nor have
experiments been wanting to establish
this fact. — Dr. Harnist.

V While not favours or accelerates Digestion,
it is certain Sleep has a contrary ef-
fect, but it does not follow from
this circumstance that food is less
healthy upon that account. Perhaps
it may be more completely digested by
its longer detention in the stomach,
and there can be no doubt but its
influence in keeping up the actions of
life in the sleeping state is greater when
combined in the stomach, than when
diffused through the intestines in the
form of Chyle. Sleep after a full meal
should be carefully avoided, for the sto-
mach when unduly distended, presses

✓ But should the influence of habit con-
 -tribute to render the middle of the day,
 or ~~was~~ two or three hours after it, the
 time for eating the principal meal, it
 will be proper to avoid labor and exercise
 soon after it. If sleep should be indul-
 -ged after dinner, it should never be
 in a horizontal posture. Aristotles we
 read slept ^{after eating a full meal,} but it was only
 in an Arm Chair. The Portuguese ^{it down} after
 upon the floor and
 sleep with their arms supported by
 two chairs, and their backs, by a wall
 after dinner. — Care should be taken

upon the adjoining viscera, and upon the
surrounding cravata, and thus disjunct to Colic
& Apoplexy. -

✓ 9 meals, whether they be one, two or
more in day, should ^{generally} be taken at
the same hours. Nature expects them,
and useful Assimilations in the Animal
Economy are destroyed when she is
not gratified. This is most proper &
most practicable in the manner of
life. -

When persons sleep in this sitting posture
that the neck be perpendicular with the
body, otherwise the ^{preparation} ~~circulation~~ of the
blood will be obstructed to, or from the
brain. — V

16 It is a common practice in some
parts of the United States to take a glass of
wine ~~or~~ with bitters before dinner. The
practice is a bad; ^{inasmuch as it} ~~the bitters~~ excites the
Appetite beyond the digestive power of the
Stomach, ~~and it does~~.

17 ~~It is a common~~ ^{that is taken} ~~of some tablets to~~
~~drink~~ The lips ^{is} ~~are~~ drink at ^a ~~will over~~
~~food~~ before we have finished the animal
part of our meals, the better. It acts
by ~~stimulus~~ if it be wine, or malt liquor,
by stimulating the Stomach, and thus
prompting to eat more than the system

[Faint handwritten notes, possibly bleed-through from the reverse side.]

the Drink
 requires. If it be more simple, and taken
 in a large quantity, beyond the proportion
 to solid food formerly mentioned, ^{it} ~~the~~
 dilutes the saliva and gastric juice so
 as to weaken their dissolving power, &
 has by ^{elevating} ~~heating~~ the food ~~separates~~ from
 the surface of the stomach removes it
 beyond the action of the latter, and ^{finally} ~~of~~
 hurries it into the intestines before it
 is completely digested.

12 There have been disputes among physicians
 whether food should be taken hot or cold.
 It is peculiar to the human species to
 take it in the former way. Even the
 warmest nations prefer it ~~after it has~~ warm
 from the fire. It is certainly more
 savoury in this state, and if it be more
 easily digested when cold than hot, it



its being having been kept
must be ascribed to ~~the influence of time~~
longer before it is eaten.
~~upon which it was examined~~

13. The practice of Carving or cutting certain
kinds of food ^{at table,} has an unfriendly influence
upon health. Most of people sit down to
dinner in a state of debility from labor or
hunger. To contend with a tough goose or
turkey, or a piece of disjointed meat ^{in this situation} for
~~less~~ ^a quarter of an hour wastes the re-
~~main of strength brought to increase the~~
weakness of the body, and thus to impair
the strength of the digestive powers. It moreover
exposes the persons who have thus lost
fifteen minutes in Carving to the necessity
of swallowing this food without masticating
it sufficiently in order to avoid the suspicious
singularity of eating alone. I say nothing

a note

+ The late Anthony Benet once went into the house of one of his brothers at the hour of dining. He asked him to sit down and dine with him upon some poultry which was placed ~~on~~ upon the table. "What! said he would you have me eat my neighbours?" Had it been served in another form, so as to have concealed its shape, he would probably have dined upon it without asking any questions.

here of the *Voischief* done to table Cloaths,
 and dishes by this practice, nor of the
 remains of savage taste which is discovered
 by sitting down to devour our Domestic
 Animals in the same shape in which
 they have pleased us with their beauty, or
 innocence while they were alive. ⁺ The Chinese
 and the French nations always conceal the
 shape of the Animals upon which they feed
 by their modes of cooking them. ~~that it is often difficult to tell~~
~~to what class of~~ whether they were taken
 from the air or the earth. Hence the Knife
 is in part banished from the tables of France
 and the ~~food~~ ^{Spoon supplies in a great measure} ~~the Knife is~~
 under the want of both the Knife & fork
 in China. In some parts of Sweden and
 Denmark we can tell us in his ^{hungrier} ~~northern~~

14 ✓ There should frequent changes, or
a ~~regular~~ rotation in the use of the
different kinds of aliments particularly
of flesh. This is necessary to keep up
the pleasure of eating, and perhaps the
salutary effects of food. It is from that
disposition which the taste has to be
satiated with one kind of meat, that
the beef, mutton and hog butchers,
seldom live upon the flesh they respective-
ly prepare for the market. The distaste
and even aversion which some men
express for particular meats arises
frequently from their having been fed
when children exclusively upon it.

excursion to those northern Countries ~~as~~
their Dishes of animal food ~~are~~ are cut up
~~the~~ Carving is performed by Servants
before they are brought to table.

✓ 15 To persons Great benefit will arise to
health from ^{the} occasional ~~for~~ ^{or a total abstinence from it} diminution
of the customary quantity of our food. ~~It~~
^{this rule} should be practiced at all ~~to~~ times when we
~~are a little indisposed - in extreme weather~~
~~weather~~ at the following times and under
the following Circumstances.

1 When the body is a little indisposed
from cold, or any other cause. The
celebrated player m^r. Maclain who lived to
~~near 100 years of age~~ never had a fit of
sickness during his long life which ex-
tended to nearly an 100 years. ^{made} He presented
the means that procured him this exemption
from attacks of disease were always to
abstain from ~~the~~ food as soon as he

V The Indians always fast in their light
indispositions. To allay that uneasiness
in the stomach which arises from
constipation they eat a little of the root
of the Spikenard which keeps up a
gentle action in the stomach, without
imparting any nourishment to the body.

felt himself indisposed in the smallest degree - to go to bed - and to drink diluting teas only for two or three days. ~~Indian practice~~ ✓

2 Also the quantity of food should be lessened in very warm weather.

3 It should be lessened during the prevalence of violent and malignant fevers.

4 In all sudden ~~and~~ and laborious enterprises ^{exercises} of the body or mind which are intended to be of a short duration, great advantages will arise from a diminution of the ordinary quantity of food. Dr Jackson has furnished some striking proofs of the efficacy of this practice upon himself in the West Indies.

5 Persons who live much in ^{convivial} ~~violent~~ society should fast at least once a



Among the Catholics
week. The custom of dining upon
fish every Friday is a good one. ~~and~~
~~depends the labor of the system~~ It is a relative
abstinence, for fish contains much
as it was formerly remarked
less nourishment than flesh. Sir John
Sinclair mentions an instance of a great
feeder who lived much in company who
dined upon a single egg every Sunday.
Dr Franklin made it a ~~practice~~ ^{rule} to
while he resided at in France as Mi-
-nister from the United States, to refuse
all invitations to dine out on a certain
day of every week. On that day he
retired to his bed chamber, and lived
entirely upon weak ~~green~~ tea. He
gave as a reason for this practice, that
it "was necessary to give Nature a
holiday once a week in order that
she might clean out her streets." In

✓ 6 istinence is highly ^{and proper} before
persons submit to ^{such} ~~difficult~~ surgical
operations as will probably be followed
by an inflammatory fever. ~~as~~ The Indians
live sparingly before a battle by which
enormous wounds not made in vital parts
heal much sooner than the wounds
of soldiers in the armies of civilized
nations. -

Abstinence

all cases of ~~fasting~~^{fasting}, liquids of some kind should be taken. The system is more benefited by it, than when the sensation of thirst is added ~~to~~ to that of hunger. The system suffers less likewise from the temporary abstraction of food than it does of drinks. — V

Nature it is said Abhors a Vacuum. It is equally true, she is unfriendly to ~~some~~ too much uniformity in eating & drinking whether it relate to quantity or quality. However ~~that~~ necessary this ^{be} ~~may~~ to cure diseases, it does not always prevent them. In the intercourse with the world which business, travelling, ^{or} social pleasures ~~renders~~ ^{renders} necessary for most men, it is impossible to carry a

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pair of Scales, or a measure to determine
the quantity of ~~the~~ our food; for which
reason it will be necessary to avoid ^{rigid} too
habits in eating and drinking. To inure
the system to eat of every thing, and at
any time will be useful in the present
state of civilized society. A little soup now
and then ~~too~~ is often as necessary and
salutary as a little diminution of our
food and drinks. — It fortifies the system
against diseases from causes over which
we have no control such as the
vicissitudes of the weather, ~~and~~ it gives
a gentle fillip to nature, and ^{prevents her} ~~prevents her~~
~~her operation~~ forgetting to keep all her
passages open, and ^{all her} wheels in motion.
The late Dr Cleghorn, ^{of Dublin} belonged to a Club
that dined together once a fortnight.

V Short, he does not know all the
household pleasures of eating who does
not depart now and then from his
ordinary habits as they are related
to the quantity and quality of his
food, nor any more ~~than~~ he knows
not the pleasure of a feast, who fares
sumptuously every day.

~~The Doctor~~ For two or three days after
 at which he ate and drank a little more than
 meeting this Club he used to say he
 he did with his family &
 enjoyed better health and spirits than he
 did on any of the intermediate days.

The fresh supplies of health & spirits &
 even the blossoming color which many
 people bring home with them from
 short ~~seasons~~ visits to their friends
 whether in town or country, and in some
 instances ^{down to} ~~from~~ mineral springs, and the
 sea shore, I believe are often the effects
 of fresh ~~vigor~~ being in the calm in their
 systems being removed, by the ^{additional} ~~increasing~~
 quantity of food and drinks which
 friendships & ^{disposed} ~~disposed~~ ~~hospitality~~, or company ~~disposed~~ ~~them~~
 them to take; or forced upon them. In
 15 Food should be well ~~medicated~~ before

✓ education in youth, and by a
few resolute experiments in every
stage of life. —

17 There is in some persons what is called
 Idiosyncrasy, that is an inability to eat
 or drink ^{or to digest,} certain aliments and liquors
~~that without being injured by them~~
 which are ^{pleasant} ~~inoffensive~~ to ~~common~~ the
 taste, and inoffensive to the stomachs of
 other people. ~~It is common~~ This
 idiosyncrasy is ~~either~~ hereditary - native,
 or acquired. It is ~~proper~~ common
 to humour it, and where the ^{disorder} ~~antipathy~~
^{antipathy of} ~~between the taste & stomach & aliments~~ is to those
 aliments & drinks ^{only} that are seldom met
 with in company, no inconvenience
 can arise from so doing, but when it
 extends to ^{numerous} ~~several~~ and to common articles
 of ^{diet} ~~it~~, the antipathy should be conquered.
 This has often been done by a proper

Handwritten text, likely a letter or document, written in cursive script. The text is mostly illegible due to fading and blurring. The page is numbered 1 in the top right corner. There are several lines of text, some of which appear to be crossed out or corrected. The handwriting is dense and fills most of the page.

18 Food should be well masticated before
it is swallowed { The following experiment
will show the necessity of attending to this
rule.

Many diseases of the stomach arise from
the neglect of this rule. It is often indu-
ced by ^{loss of} extreme hurry of business, ^{by} absence
of mind, ^{by} conversation and ^{by} drinking ^{beverages}.
The last ^{produces} ~~subject is~~ ^{has} this effect
by obliging persons to swallow their food
before it is masticated ~~in order~~ to order to
express their thanks to the person who
drinks to them. The practice of drinking

1843
The following is a list of the names of the persons who have been admitted to the membership of the Society since the last meeting of the Executive Committee.

1. Mr. J. H. [illegible]
2. Mr. [illegible]
3. Mr. [illegible]
4. Mr. [illegible]
5. Mr. [illegible]
6. Mr. [illegible]
7. Mr. [illegible]
8. Mr. [illegible]
9. Mr. [illegible]
10. Mr. [illegible]

11. Mr. [illegible]
12. Mr. [illegible]
13. Mr. [illegible]
14. Mr. [illegible]
15. Mr. [illegible]
16. Mr. [illegible]
17. Mr. [illegible]
18. Mr. [illegible]
19. Mr. [illegible]
20. Mr. [illegible]

21. Mr. [illegible]
22. Mr. [illegible]
23. Mr. [illegible]
24. Mr. [illegible]
25. Mr. [illegible]
26. Mr. [illegible]
27. Mr. [illegible]
28. Mr. [illegible]
29. Mr. [illegible]
30. Mr. [illegible]

health moreover proves hurtful to young people (who are modest) by disposing them ~~if they~~ not to drink at all, rather than ^{interrupt} ~~publicly~~ half a Dozen or a Dozen persons who are intent upon eating by rudely addressing them ^{in an} ~~with a loud~~ elevated tone of Voice, with good wishes for their health.

In order to masticate food properly, the teeth should be in a sound state. ^{not only to health but} This importance to Speech, & beauty, ~~as~~ ~~well as to health~~ ~~should have~~ renders a knowledge of the method of preserving them an essential part of ~~the~~ ^{the} present work. I shall therefore deliver a few directions for this purpose.

My dear Sir,
I have the pleasure to inform you that
the same has been forwarded to you.

I am, Sir, very respectfully,
Your obedient servant,

[Signature]
J. B. [Name]

I am, Sir, very respectfully,
Your obedient servant,

[Signature]
J. B. [Name]

I am, Sir, very respectfully,
Your obedient servant,

[Signature]
J. B. [Name]

I am, Sir, very respectfully,
Your obedient servant,

means for of preserving the teeth &
supplying the ~~def~~ want of them.

1 Let the milk teeth (as they are called) or the
first teeth, be extracted as soon as they
begin to ~~lose~~ loose, in order to enable the second
teeth to project in a straight & regular
manner. If ^{the best} any disposition appears
in any of them to grow irregularly,
let them be kept straight by means of
gold wire, or by drawing the adjoining
milk teeth before they are loose. Crooked
teeth, like deformity, in other parts of the
body, always dispose to disease. They ^{are} ~~soon~~
~~apt to~~ decay soon, while regular and
handsome teeth are generally lasting.

2 In young people we sometimes observe
a single decayed tooth, with every

✓ ~~for~~ In this respect the teeth resemble
= like plants which suffocate & destroy
each other, if they grow ^{near each other} too closely.
The decayed tooth

Other tooth, sound and beautiful. This
~~solitary decay~~ ^{decay in this} tooth is produced by
the pressure of the adjacent & surrounding
tooth ^{upon it} being so great as to deprive it of
its nourishment. ~~It~~ ^{it} should be extracted
immediately or ~~the decay~~ ^{it} will ~~spread~~ ^{spread}
~~its disease~~ ^{its disease} through the whole jaw. I am indebted
for this article of advice to the late Dr. Spence
who confirmed the truth of it by the practice
of many years.

3 Remove a ~~decayed~~ ^{decayed} tooth as soon as
it is perceived, more especially if it be
~~it becomes so loose without being decayed,~~
~~as not to be useful in chewing~~
to bear the pressure of food ~~applied~~ ^{applied} upon
it. A tooth when it ceases to be used,
~~projects from its socket, and becomes~~
~~becomes loose, affects the is apt to pro-~~
~~ject~~

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3 Remove a decayed tooth as soon as it is
 (unless it can be the decay can be stopped by gold
 preserved) ^{or} more especially if it be unable
 to bear the pressure of food upon it. The
 reasons for this advice are as follow.

1 A decayed tooth exposes to great local pain,
 from cold, and hot substances applied to it,
~~and to intense pain~~ It is likewise an
 inlet to many general Diseases. I have
 seen Gouty and indigestion brought on
 by it, and cured by its removal, and
~~as those of~~ there are records in books of
 medicine of head ach, Vertigo, and
 Consumption being induced by it.

2 It affects, and corrupts the teeth
 that adjoin it, or that are above, or
 below it.

3 It ~~also~~ renders the breath offensive,



and sometimes taints the food ~~that~~
and thus brings on diseases of the
Stomach and bowels.

4 From a decayed tooth not being
used, it is apt to project

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from its Sack, and to become elongated.
 But this is not all - from the want of
 exercise of the ~~teeth~~ ^{the gum becomes diseased} teeth in the jaw
 above or below it, ~~they likewise project,~~
~~and become~~ loose, ^{as} and hence we observe the
 top of the fore teeth of the upper jaw, to be
 soon followed by the top of the corresponding
 teeth of the lower jaw. ~~Thus~~ ^{Thus} the
 truth of this remark will appear more
 evident by attending to the state of the teeth
 in ~~of~~ horses that live altogether upon hay
 or soft food. It disposes the incisores or
 fore teeth of both jaws to project, from their
 want of exercise in cutting the grass, in
 consequence of which they are unable
 to bring their molars or grinders together.
^{that are kept constantly in a stable.}
 Horses often die prematurely from this
 cause. I shall in another place mention
 - on

V 3 Acquire a habit of exercising
equally the teeth of both sides the
jaws in eating. The saliva is thus
poured forth more plentifully upon
the food, and equal strength ^{imposed} ~~is~~
to all the teeth.

the means of preventing it.

✓ ^{Avoid} ~~By Avoid~~ the early and intemperate use
of Acids whether ⁱⁿ unripe fruit, or in
Vinegar in diet, and the ~~causes~~ ^{habitual} use
of the ~~latter~~ mineral acids ~~as~~ ^{as} medicines. the Nitric Acid is said to be
the least hurtful of them. When it is
necessary to use any ~~one~~ of them for
a considerable time, they should be
taken through a pipe diluted with water,
so as to pass over the lute without
touching them.

✓ Protect the head and jaws from Cold &
a local fever by sleeping in a warm night
cap in cold weather. By this means the
warmth of the body is equalized in bed.
The French people owe their excellent
lute ^{chiefly to} this ~~fact~~ ^{and} practice in a
climate ^{too} not much less variable than

[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]

that of the United States.

6 Wash your jaws and behind your ears every morning in cold water, & your teeth with water a little warmed, by means of fire, or by standing all the night in the ~~up~~ open air of a warm chamber.

7 Wash your teeth after every meal, particularly after supper. The remains of food by stagnating a whole night upon them, becomes putrid, and sometimes so acid as to inflame ^{the gums} and loosen their ^{connection to the} teeth. ~~from this cause - time with the gums~~

8 Frequently and carefully remove the tartar from the roots of the teeth. It prevents this being duly nourished, and

v sensibility only to heat and cold, ^{acid} ~~is~~
probably for no other reason than to
^{teach us to} ~~teach us to~~ protect them from ~~the~~ the
extremes of both in our aliments &
drinks. -

thus loosens and destroys them.
9th Avoid the alternate ^{application} ~~action~~ of cold
and hot drinks to ^{especially} them in a quick
succession. The teeth are endowed with V
10th Avoid using the teeth for purposes for
which they were not intended, such as
cracking heavy nuts, bending nails,
biting hard apples or other fruit, and
even biting the ends of the nails, ^{and} ~~use~~
the ends of thread. Women weaken
their teeth very much by the last
practice.

11th Avoid the use of all acid corrosive
tooth powders, also too much friction
of the teeth. The following composition
has been found to be safe and useful,
when rubbed upon the gums by

After having been a student of the
University of Michigan for several years
I have been able to observe the
progress of the various sciences
and to see the influence of the
different theories upon the
minds of the students. I have
seen the progress of the
various sciences and the
influence of the different
theories upon the minds of the
students. I have seen the
progress of the various sciences
and the influence of the different
theories upon the minds of the
students.

It is true that the use of all such
books is necessary, also the
following is a list of the
books which I have found to be
of the greatest value in the
study of the various sciences.

means of a tooth brush. ^{Powder of} Bark and Charcoal of each an ounce. Myrrh ~~and~~ half an ounce, Cream of Tartar two Drains intimately mixed together. A weak solution of an Alkaline salt is likewise an excellent application to the gums. It disposes the matters that insinuate between the gums & the teeth and thus prepares them to be more easily washed out of the mouth. It moreover corrects the defect of the breath from ~~was~~ decayed teeth. Soap and water has been used with Advantage for the same purpose.

11 Brown and Black spots ~~that~~ upon the teeth should be removed by means of a

Handwritten text, likely a letter or document, written in cursive script. The text is heavily faded and mostly illegible. Some words are visible, such as "I have", "I am", "I will", "I can", "I do", "I am", "I will", "I can", "I do", "I am", "I will", "I can", "I do".

file. I have known the decay of the
teeth to be thus arrested through life

The inconveniences ^{from} of the loss of teeth
~~not~~ are such that Art has supplied
several substitutes for them. These are
human teeth purchased & extracted from
the jaws of poor people, and suddenly
fixed in the sockets of the decayed teeth
recently extracted. The ~~new~~ sound tooth
in this case does not ^{unite} with the blood
refuls of the sockets. This has been proved
by a wooden tooth becoming equally
fixed in the socket of a dog, also by the
root of the artificial tooth decaying and
dissolving in the socket while the other
part ^{of it} remains perfectly
~~retains its soundness~~ sound. The
tooth adheres to the jaw bone therefore

~~only~~ exactly in the same way that
 a nail adheres to a piece of wood. ~~A~~
~~dry tooth then~~ From the facts that have
 been stated it appears that a dry tooth
~~would~~ (contrary to the common practice)
 would have many advantages over a
 recent one in being less disposed to decay
 from being deprived of its juices, and
 in being less apt to create inflammation
 and ulceration from the accumulation
 of those juices in a state of putrefaction.
 I cannot recommend this practice.
 It is ~~pain~~ inhuman, painful, tedious,
 sometimes dangerous, and always tem-
 -porary. The ingrafted teeth seldom last
 more than four or five years.
 A 2nd mode of supplying the want of

Handwritten text, likely a letter or document, written in cursive script. The text is faint and mostly illegible due to fading and bleed-through from the reverse side. The page is numbered "2" in the top left corner. The handwriting is dense and fills most of the page.

teeth is by means of what is called pivot-
=ting. A piece of silver or gold is fixed
in ~~the~~ an artificial or natural tooth
in its dry state, and thrust into the stump
of a decayed tooth. ~~As to the~~ A tooth
or teeth thus fixed, serves the purpose
of speech and wear of mastication
for ^{some} ~~some~~ ^{a short} time, but the pivot soon
wears away, or the hole in the ~~tooth~~
stump of the ~~decayed~~ tooth in the jaw
soon becomes too wide to hold the
pivot in a firm state. From ~~the~~ one
or both of these causes the tooth is apt
to fall out in eating, ^{if sometimes to be} ~~some~~ ^{swallowed}
~~instances of its being~~ swallowed with the
food.

a 3rd ~~method~~ of The want of natural
teeth is supplied by tying Artificial

[The page contains extremely faint, illegible handwriting throughout.]

6. The use of strings at the present day, has done away the
 fastening by the screw.

teeth made of the teeth of the Sea Cow^r
 by means of thread to sound teeth.
 This mode is ~~the~~ more durable and
^{less} ~~least~~ inconvenient of any ^{than either of} ~~the two~~
 the two which have been mentioned. Two sets of them
 shall always be in use, and they
 should be changed every two or three
 days. ~~These~~ new sets should be used
 every year or two, for as they wear
 away, or are eroded at their extre-
 -mities, they are apt when drawn
 close to the teeth which hold them
 to loosen them, and thus to cause
 them to drop out of their sockets.
 & where all the teeth have fallen

out, this Cop has sometimes been
supplied by a set so formed as to sit
easily upon the gums of the upper
and lower jaw, and to serve in a
limited degree ~~all in any~~ ^{all} of the purposes
of natural teeth. The a Description of
them would be ~~useful~~ unnecessary in
this place, ~~for~~ They ~~can~~ are made by
most of the Dentists in the United States.



Rules for the preservation of health
 and life must necessarily be of a
 relative nature. Age - ~~Season~~ ^{sex} and
 Occupation ~~and Season~~ require diet &
 Drinks of an appropriate nature. I
 shall therefore briefly ^{apply} ~~mention~~ the
~~rules that have been mentioned to~~
~~mention the quantity and quality of~~
~~the aliments and drinks which are~~
~~most proper for each~~ ^{mention} a few circum-
 -stances which should regulate the
 diet and drinks proper for each of them.





Children ~~require~~ possess more irritability
 or a greater disposition to be acted upon
 by Stimuli, than Adults. They require, ^{likewise}
 food for the double purposes of promoting
 their growth and supplying the daily waste
 of their bodies. It follows of course that their
 diet and drinks should possess but little
 stimulus, and that it should be of the
 most nourishing kind. — ~~we~~ know what
 has been said in the history of Abstinence
 and drinks, ^{it must be obvious, the grains} that milk, vegetables,
 & fruits ^{with simple} ~~with should~~ compose the former
 and water are most suitable for them.
~~The robust constitutions of the~~ The
 firmest constitutions in Europe and
 America have grown out of the
 potatoe, oatmeal and Indian corn

mixed with milk, or sugar or molasses.
As ~~they~~ ^{as} children advance in years they
may partake of ^{weak tea & coffee,} weak broths, and fish,
~~both of which~~ ^{with a moderate} quantity of boiled animal food. The less
it is ~~seasoned~~ ^{seasoned} the better. Condiments
such as salted meat & salted fish should
be withheld from them ~~at~~ with their
breakfasts and suppers when those meals
consist of tea, and coffee. Butter should
be ~~used by~~ given to them sparingly;
~~and~~ sugar may be taken more freely
with their aliments, ^{a teaspoonful or} provided it be not
more of it taken in the morning has
been found in many families effectually
to prevent all the diseases which are
produced by worms. From the rapid
digestion which the above aliments
undergo in the stomachs ^{of children} they,

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should be indulged in eating often. A
 crust of bread, or a roasted potatoe should
 always be prepared to meet their appe-
 tites in the morning, and when they
 return from school. ~~Wine and spirits~~
~~should~~ ~~be~~ malt liquors and wine should
~~be~~ ^{given to} ~~be~~ ^{in a diluted state in} ~~be~~ ^{small quantities} ~~be~~ ^{and that only} ~~be~~ ^{in order to} ~~be~~ ^{in the summer months,} ~~be~~ ^{to protect their bowels}
 from the usual disease of hot weather.
 Astringent spirits should never be tasted by
 them.

To these rules there should be exceptions in
 favor of children that bring into the
 world, ~~for~~ or acquire in infancy, feeble
 constitutions. ~~For~~ ^{For} such with and
~~vegetables alone~~ ^{are} such children require
 animal food of ~~the~~ ^a ~~most~~ cordial nature,



and a constant but moderate quantity
of malt liquor or Wine. I have seen a
~~fact~~ They are the ruin of the Constitution,
and as much indicated in such cases as
medicines are to cure their diseases.



In youth the ^{blood vessels} ~~appetite~~ ^{are} ~~calls for animal~~
~~food~~ and the nerves sensible in
 a high degree. The least excess in either
 of them, disposes to, and often produces
 disease, particularly fevers and hemorrhages.
 The ~~disturbance~~ ^{the} appetite in this stage
 of life is often keen, and calls ~~chiefly~~ ^{for}
 animal food. To prevent the diseases
 to which the system is predisposed ^{at}
^{this time} the quantity of food should always be
 less than the appetite calls for. ^{Broths} ~~Boiled~~
~~meats~~ should be preferred to solid meat,
 and boiled meat to that which is
 roasted, or broiled. Malt liquors, wine
 and condiments should be taken spa-
 ringly, ^{with their meals,} ~~and ardent spirits never.~~
 time, and ardent spirits - never. Pastry



made in the most simple manner,
and ^{mixed} ~~abounding~~ with fruits, serves to
blunt the appetite for animal food,
and thereby to lessen the Bisc of it. It
should therefore form a ~~an~~ material part
of the Diet of all boarding schools. There
are few young people that are not fond
of it.



the system undergoes a change.
 In middle life, ~~the diet and drinks~~ ^{the diet and drinks} nearly in an
 Invariability and sensibility are in a most
 exact proportion to each other. It is
 moreover the period of ^{great} ~~high~~ bodily and
 mental exertion, of course ~~more~~ ^{more} ~~moderate~~
~~your~~ diet and drinks of a ~~more~~ cordial
 nature are required to supply the ~~the~~
 rapid expenditure of the strength of the
 body and vigor of the mind. To ^{person of} ~~take~~ ^{renewed} ~~this~~
~~at~~ this age, I shall only ^{refer} ~~refer~~ to
 an attention to the Rules which are
 annexed to the history of Diet & Drinks,
 and advise them further to recollect that
 Good health like money is a Capital,
 and that the more Economy is used in
 expending it ^{in early and middle life}, the more will be laid up



for old age. Too wise but not obvious
the injuries that are done to it, for many
reasons, the system often suffers ~~in~~
years in ~~for many years~~
patience and silence the injuries that
but sooner or later there is an end to this
are done to it in early and middle life;
prolongance;
but it does not always for bear. If the
overflowing bumper, the rich ragouts,
the undue and oppressive loads of ven-
erisole animal food, the improper
mixture of Aliments, and the bottles ~~of~~
instead of glasses of wine which have ^{been} swilled
with them, will revive again afterwards
like the hiss in the forms of if they
do not ^{subject} ~~expose~~ to a premature death from
common acute diseases, they will revive
in the forms of Vertigo, palsy, and
Apoplexy, and thus amply avenge the
^{intemperate and sinful use}
abuse of waste of the the precious
gifts of providence.

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Old age may be divided into two periods,
the one beginning at 60, and ending at
75, - the other, extending from 75 to the
remotest term of human life. This
latter stage has been called decrepitude.

In the former period, the blood begins to flow with languor, and ^{is disposed} to stagnate in ~~that~~ ^{those} parts of the body in which the force of the heart and ~~arteries~~ ^{arteries} is least felt. The senses of seeing, hearing, and touch become dull - and the tone of the mind descends with that of the body.

The nervous system loses a portion of its sensibility, but it acquires at its expense, an increase of irritability, that is ^{it} is more easily moved by those impressions which act exclusively upon it. The ~~taste~~ ^{the taste} ~~becomes less~~ ^{this history of} appetite increases, while the taste



drop
or fall out of their Sockets, or become ~~fixed~~
the state of the body in the first stage of old
age that it is difficult or impossible to masticate
it is evident that ~~as~~ there is ~~some~~
with it, ~~and~~ ^{and} them, and there is
an inaptitude to exercise, and ^a disposition
to prefer rest to labor. It is from this
cause that ^{those} ~~many~~ persons who have led
active lives and who become independent
in their circumstances, ^{or} ~~at~~ between 55 &
60 years of age, often ~~become~~ lose their
health, and are affected with all the diseases
that arise from a languid circulation
of the blood, and a want of tone in the
muscular and nervous systems. In this
stage of life, a material change should
be made in the diet and drinks. The
former should consist of articles rendered
cordial by Condiments, but not very
nourishing. These should be ^{forms}
for well boiled meat ^{or otherwise prepared,} so boiled ^{as to be}
rendered easy of mastication, fish,

V The attachment of old men to cordial Aliment is illustrated in the command of Isaac to his son Esau to render the venison "savoury" and "such as he loved" before he brought it to him.

VI ~~as the system bears with difficulty~~ ^{enures} From the increase and indulgence of the ~~the reduction of diet in this stage of~~ ^{acute} life, the ~~diseases incident to it should~~ of appetite, and the ~~indulgence of it~~ ^{diminution} of exercise and labor, the blood vessels become overcharged with blood and the system becomes subject to all the diseases of plethora at this time of life. To remove them, - a reduction in the quantity of Aliment is submitted to with reluctance, and is borne with difficulty & sometimes with Danger. ~~by the system.~~ The remedy for these diseases is small & occasional bleedings. They are safe and useful and do less violence to the system than any other mode of depletion.

pastry, fruits, Chocolate, tea & coffee. ^V The means
 that old people advance to seventy five, & the
 often they should eat. It has been common
 to call wine the milk of old age. This is by
 no means a ~~correct opinion~~ ^{true saying}. From the
 increase of irritability in their systems, a
 large quantity of fermented liquors of all kinds
 is introduced ^{them} than in early and middle life.
 Wine, beer, and malt liquors therefore
 should be taken sparingly ^{by them}, and always
 in a diluted state. The more ^{thin & simple} liquids they
~~take in this way~~ drink the better within
 a certain degree. They are calculated to
 obviate that disposition of the fluids to
 become acid, ~~and~~ obstruction, and the formation
 of gravel and stone in the kidneys & bladder
 which accompanies old age. "

In that stage of life which has been
 called Decrepitude -

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~~infantile constitution. There is now not~~
~~only an indisposition, but an inability to~~
~~labour or exercise. The Diet in this stage~~
~~of life should be ^{therefore} ~~indicated~~ ~~of~~ ~~be~~ ~~enriching~~~~
~~but not stimulating~~ supply this place. ~~It~~
~~nature~~ in supporting the actions of life
~~now calls for~~ not only ^{for} cordial
~~but sometimes for the fattest meats,~~
~~and experience shows that it is safe~~
~~and proper to gratify her. So as the~~
~~digestion is now rapid, food should be~~
~~taken in the intervals between meals,~~
~~and where ^{called for by hunger} ~~it~~ ~~is~~ ~~attended~~ ~~by~~ ~~this~~~~
~~extreme period of human life, food~~
~~should be taken in the middle of the~~
~~night. The drinks ^{should} be ^{simple} ~~simple~~, ^{distributed}
~~fermented liquors. Ardent spirits should~~
~~for the same reasons which were~~~~

V From the greater irritability of the female
Constitution, Women require less ^{stimulating} ~~alimentary~~
~~both~~ and nourishing Aliment than men,
^{nearly} at all times, ~~but~~ ^{and} particularly ~~absterges~~
~~facies~~ when the system is ⁱⁿ ~~a~~ ^{permanently}
excited, or inflammatory state, ~~that is during~~
~~the continuance of this morbid disease,~~
~~menstruation and~~
~~and the time of pregnancy.~~ ~~Abstinence~~
~~to this rule should be made.~~ The Abstinences
Diet is strongly suggested by nature in the
^{state of the system}
latter ~~case~~ by the sickness and flatulency
and Want of Appetite which she induces
during the first months after it takes
place. ^{The only} ~~There is but~~ exception to this rule,
~~and that is~~ should be during the time
of giving suck. The Diet and Drinks should
then be of a more cordial and nourishing
nature.

not be tasted.
~~mentioned in ^{the} treating upon the~~
V ~~Drinks proper for the first stage~~

Strenuous men induce upon their Systems
~~the~~ many of the diseases which are brought
on by ^{inactivity} ~~the~~ of Old Age. The undue
exercises of the brain ^{have} ~~leave the~~ ^{other parts} ~~the~~ Stomach
of the body, and particularly the Stomach in a
~~and~~ ^{in a state of torpor}
torpid state. To obviate this torpor
the Diet should be gently stimulating,
small in quantity, and not very nour-
ishing. Wine may be taken ^{with this} ~~liberally~~
it ^{helps} keeps up the actions of life without
adding much to the quantity of blood, ~~but~~



Coffee should be ~~preferred~~ ^{this} to used liberally
by these ~~vicious~~ class of people. ~~The~~ ^{and} ~~hopes~~
It is like ~~winning~~ ^{scarcely} ~~cordial~~ ^{nothing}
~~being any more~~ ^{adding more} ~~adding more~~ ^{nothing}
~~anything~~ to the nourishment of the body
~~these~~ ^{but} what is contained in the Sugar &
Cream or Milk which are mixed
with it. Mr Poole ^{who spent ten years in writing} the ~~author~~ ^{of a Synopsis}
and Annotations upon the bible, his Progra-
m ^{lets us see} and sat down ^{to his studies} ~~to~~
- when ~~says~~ ^{at} three o'clock every mor-
-ning, eat a raw egg at 9 o'clock and another
at 12, and after spending the ~~whole~~ ^{whole} afternoon
with in his closet, ~~left it in~~ ^{packed} the evening of
which ^{the day} he ~~passed~~ in convivial society with
his friends. Many of those Authors who
^{have} both both instructed and delighted the
world ^{by} their writings have lived
from necessity upon ~~the same~~ ^{an equally} scanty
fare ~~fare~~ that this portion of Abolition.
and perhaps owed their lives to it ~~life~~
^{similar} ~~similar~~ portion of life nourishing Abolition.

[The text on this page is extremely faint and illegible due to fading or bleed-through from the reverse side. It appears to be a continuous paragraph of handwritten text.]

76
The diet for ~~Laborious~~ persons who ~~follow~~
~~lead~~ are devoted to sedentary Occupations
should be nearly the same as for studious
people. From the labor of their hands
being greater, it should be somewhat
more plentiful and nourishing.

noting

noting

noting

~~The Aliments and~~

Labourers who employ all the ^{whether} muscles
of their bodies in active employment ~~do~~
in the open air, or under cover, live
^{at a great &}
~~in a~~ constant state of expense of their
strength ~~from~~ ^{by} perspiration, and ~~the~~ by
perspiration and otherwise. They re-
quire therefore food that possesses the
double properties of stimulating and
nourishing the body. ~~It is the profits~~
~~the former~~ ^{It} should be of such a nature
as to prevent the loss of time in taking
~~such~~ frequent supplies of it into the
stomach. A day labourer upon a
farm in Philadelphia County once ^{said to} ~~told~~
his employer who offered him a
breakfast of bread and milk "I cannot
work upon that diet - give me

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in
 something to eat that I can sell all
 my stomach till dinner time". Food
 He had found by
 slow of digestion experience had taught
 him that food slow of digestion, accorded
 best with the waste of his strength by
 labor. This should be. Salted meat,
 particularly pork (which from its
 fat ^{I have said is} ~~is the best~~ ^{more nourishing}
 than ^{salted} beef - smoked meat - and fish
 sausages - ^{onions} ~~onions~~. The
 hard boiled eggs and ~~onions~~. The
 last of those articles should form a
 part of the very meat of labourers.
 The Jews were enabled to ^{comply with} ~~perform~~ ^{the}
 the severe exertions of their task master
 in ~~the~~ ^{the} hot sun of Egypt, by feeding
 upon onions and other alliaceous roots.
 Sir William Temple says the Pyramids

+ O! chra mepomun illia"

✓ The Russian peasants obviate
hunger by eating half ^{baked} ~~done~~ bread &
the Irish peasants do the same thing
by eating half boiled potatoes. They
produce that effect by their ~~the~~ indiges-
-tible qualities.

of Egypt were built by them, by which
he meant, that those stupendous monu-
-ments of human industry & folly were
erected by men who were fed chiefly upon
onions & garlic. The tails of the harvest in ancient
Rome were supported by a Diet of which
onions formed a part. of this the poet
mentions a proof in his ^{contrast of} appeal to the
strong digestive powers of reapers, with his
sufferings from having accidentally ^{exter-}
~~acted~~ upon them. ⁺ ~~etc etc~~

The Chinese Dr. Barrow tells us add
not only onions, but rancid Castor Oil
to their rice. ~~in order to render it more~~
condi. It seems like the onions to retard by
the digestion of the rice, and to ^{render labor necessary} producing
a more durable stimulus upon the
system. V

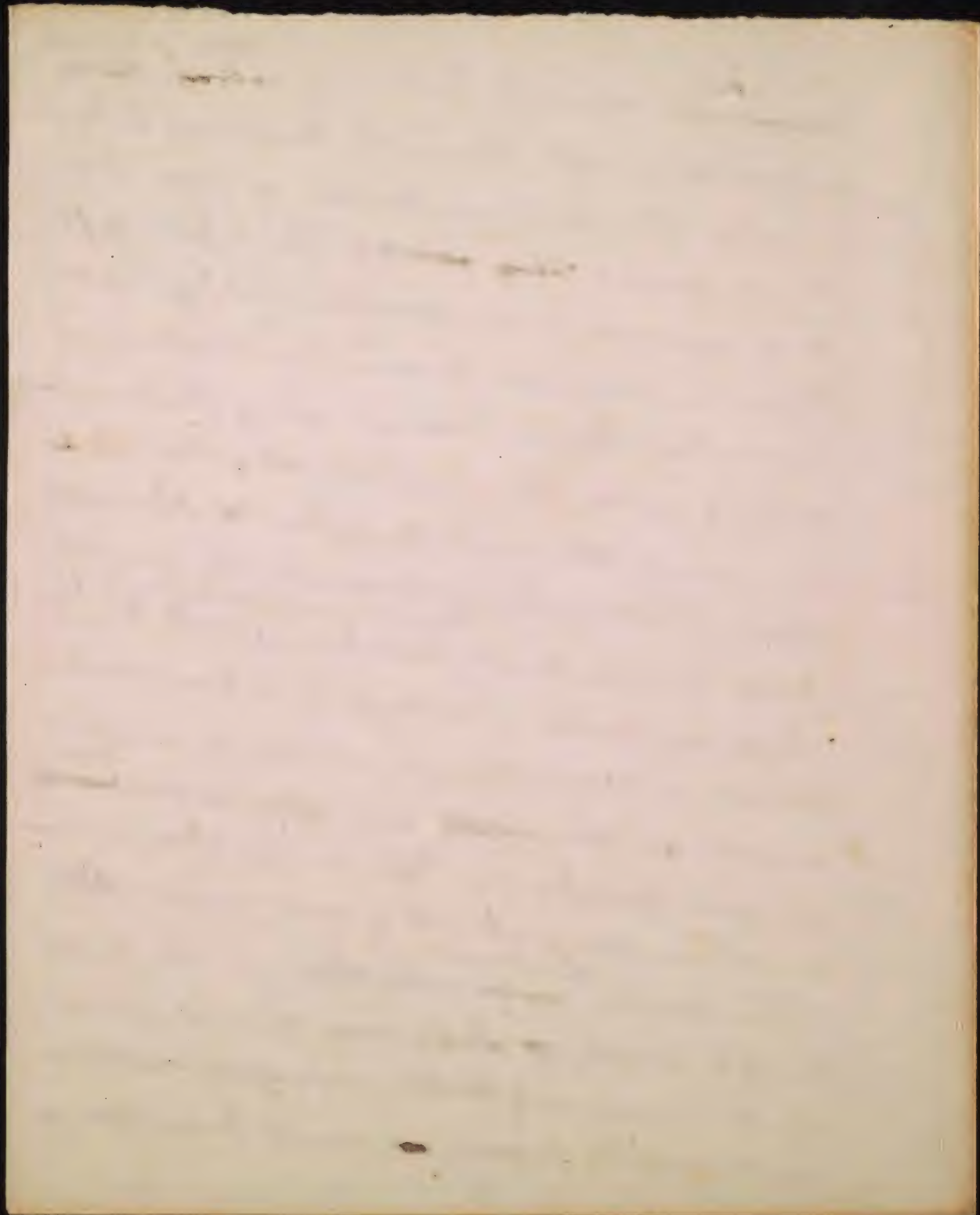
Upon the diet of all the three last
classes of people, that have been mentioned,



~~I shall only remark that as the stimulating~~
~~the~~ The Drinks of labourers should be simple,
 and small in quantity, more especially
 in the former part of the day. The Indians
~~obscure~~ avoid drinking ~~in this~~ as much
 as possible ~~until they have reached the~~
 in their marches and hunting excursions,
 until they stop to eat which is ~~about~~
 never before the middle of the day.
 Afternoon. They consider it as a mark of
 youthful folly, inexperience & folly to do
 otherwise. It certainly impairs the appetite,
 and ~~thus~~ weakens the body. Sir Robert
 Wilson in his account of the English ex-
 -pedition into Egypt in the year 1801 says
 those soldiers ^{suffered least} ~~lost~~ from the heat,
 who only washed their mouths with water
 without swallowing it. ^{experience teaches} ~~Instead of drinking~~
~~that the laborer in hot weather is~~
~~between meals, they laborers will find~~
~~this strength supported much more~~



beet ~~supported~~ much better by ^{taking a little} eating ~~than~~
cordial Aliment, than by drinking between
meals. The Jews made use of figs for
this purpose. ~~They~~ ~~antibits~~ this fitness for
it is evident from countless feeding upon
them in ancient Greece. The Arabians
Niebuhr tells us always carry Raisins &
Onions with them when they travel to
eat upon the road, in order to obviate
both heat and fatigue. In the United
States ginger bread ^{biscuit and dried fruits} have been found to be
both agreeable and useful when used in
the same way. ~~Biscuit~~, a piece of smoked
meat, or the ~~salted~~ end of a salted ^{Cups} ~~meat~~
tongue might be taken by those persons
to whom ginger bread is not agreeable.
The drinks ^{of labourers,} ~~with~~ whether in the field,
or at meals, ~~of labourers~~ should consist
of envelopes and water. vinegar & water
with a little sugar, or milk & water or



porter or Cyder and water. Ardent spirits
 should be proscribed from the ~~innocent~~
 haunts of ~~innocent~~ labor. They soon alone
 convey into ~~some give~~ it the character and consequences
 of a Curse. Without them, labor is a
 blessing in disguise. —

Upon the diet of ~~so many~~ ^{men,} people, studious,
 and labourers, I shall only remark fur-
 -ther, that as Stimulus is one of the
 properties upon which the effect
~~properties~~ of Aliment in ~~supporting~~
 preserving health and life depends, would not
~~from~~ the same advantages be derived from
 the Stimulus of distention ~~what~~ in the
 Stomach which are derived from that of
~~so~~ an acid, or aromatic quality, in food
 and Condiments? — The horse is invigorated
 by the Cob and the ^{ground} straw ^{cut} which he
 eats with his Indian ^{corn} & Oats. ^{Both} those insipid substances
 are cut ^{chiefly} by filling his stomach. ^{many} ~~more~~



Wild animals are kept alive by taking ^{matter} into
their stomachs which act in the same ~~same~~
mechanical manner. as our ~~our~~ ^{fanine} - &c



influence of Heat and Cold, and of
 The Seasons in the United States require
 a peculiar kind of Aliments & Drinks.
 moisture and Dryness, and above all of
 these, the exhalations which sometimes
 float in the Air under a peculiar
 and specific kind of Aliments and Drinks
 proper in the ^{different} four seasons of
 the year. It will help to impress ^{correct} the ideas

Inflammatory Diseases prevail chiefly
 in the Spring of upon this subject to remark,
 the affinity between the four
 seasons and four of the most promi-
 nent stages of life, and the correspondence
 between each of these and the Aliments &
 Drinks that are most proper in each of
 them. The Spring may be considered as the
 childhood, and youth - Summer as the youth,
 Autumn as the middle life, and Winter,



as the old age of the year. A striking Cor-
respondence ^{exists} between the Aliments & drinks
that are proper for the seasons have been
pointed out for those four ages of man,
and the four seasons of the year ^{that have been}
mentioned.

In the Spring, animal food is generally
~~poor~~ and from its being the season in which
Animals are generally ^{poor} from and from
- ~~being~~ from the ~~scarcity~~ ^{dry and perhaps scanty} of the
preceding winter, and from its being the
time in which most of them propagate
their species. ~~There are enormous herds~~
is necessary to mix with animal food ^{the vegetables which it}
few vegetables at this season ~~are~~
State, Stale, ^{small} and often ~~scarcely~~ in quan-
- tity; for which reason the principal
Aliment ~~instead of~~ in the Spring should
consist of ^{fresh} fish, ^{salted meat, or salted fish} and succulent vegetables
such as Spinach - and Asparagus. The
System at this time above all others,



from the first impressions of the Vernal
 sun upon it, is ^{in a great degree} ~~was~~ predisposed to in-
 flammatory Diseases; for all which reasons
 the principal Aliment in the Spring
 should consist of fresh and salted fish,
 salted meat, and excellent vegetables
 such as Spinach, asparagus & what are
 called young sprouts (consisting of.) It is a
 Custom of the oldest Christian Church
 to enjoin ~~that~~ a Diet of fish alone
 with vegetables during the season of Lent,
 which includes forty days of the Spring
 months. This institution is a truly
 wise one, and should have been retained
 by all those sects that separated themselves
 from the Church of Rome. It is calu-
 -lated to reduce the quantity of nourish-
 -ment taken into the body, and conse-
 -quently

to open plethora, and the predisposition
to inflammatory diseases. It has this
effect not only from its being less nour-
ishing, but from the diminution of
Appetite which the same food taken
for a long time, necessarily creates.

It was formerly ^{is} a practice to take
bleed ~~and~~ to take purging physic in the
Drinks in ^{to prevent the diseases of that}
Spring in some Countries & the simple
Season.
and temperate Diet which has been recom-
mended will render them all wholly un-
necessary for that purpose.

In Summer the heat of the Sun Disposes to
fevers and bowel Complaints by its action upon
the Solids and fluids of the body. Life is now
in exuberance. The Diet proper to lessen it, &
to obviate its diseases should be ^{Disposing to the stomach} cordial to the
bowels, [&] nourishing in a small degree, ~~to the~~ ^{these}
the fruits of the Season, ~~but~~ ^{should be} rendered gently
stimulating by Condiments, Salted meat, &c.

V The effects of heat upon ^{it} ~~their~~ ^{the animals that af-} ~~fect~~
more especially when ~~they~~ ^{they} are recently
-~~find~~ ^{often} it
exercised, ~~how~~ ^{often} renders ~~them~~ it ~~causes~~
the ~~causes~~ unsuspected Cause of
Diarrhea, Colic and dysentery.

bush^{side} salted fish, salads and all the fruits of
 the season. Fresh meat should be taken
 sparingly, if at all. ^V It would be a good
 practice for our farmers to reverse the
 times in which they consume their
 fresh and salted provisions. ~~They would~~
~~escape many of the diseases of the summer~~
 by eating their fresh meat in winter
 at which time it might be kept for
 weeks without salt, and their salted meat
 in summer, they would probably escape
 many of the diseases of that season par-
 -ticularly the dysentery which prevails
 more in country places than ^{in cities chiefly}
 from farmers living ~~habitually~~ ^{habitually} ~~upon~~
 salted meat than in other ~~season~~ ^{parts of}
 the year. The drinks during the summer
 should be Cyder - porter and Ale diluted



but if any
with water ~~at~~ meals; ~~and~~ ~~rather~~
liquids should be required in the intervals
of meals, some of them should be
tasted. Water, or with ~~or~~ and water,
or emolus and water ~~should~~ alone ^{the}
should be resorted to to allay thirst. All
other drinks increase it. -

The Aliments ~~and~~ in the Autumn should
be the same as in Summer. ~~For~~ In addi:
- tion to the ^{morbid} effects ^{the summer} of heat upon Animals,
they are sometimes rendered unhealthy by
feeding in pastures in which they inhale
a large quantity of putrid exhalations,
for which reason ^{up of their flesh} ^{fresh meat} they should be eaten
~~with more caution~~
~~with than in summer~~ ~~with more~~
caution than in Summer. The quantity
of ^{fermented} ^{now} liquors may be ^{taken in a} ~~increased~~
up diluted state ~~at~~ with food, more
especially if ~~autumn~~ the ^{mild} ~~common~~ Autumn,
=nal



fevers of our Country should be epidemic.
 - If the Intermittent fever should rise to the
 grade of yellow fever, fresh meat should not
 be tasted, and ^{fermented} ~~distilled~~ liquors should be
 taken with in small quantities, or not
 at all, according to circumstances. ~~In the~~
~~these two~~ the former diet elevates the
 system above, the latter & reduces it below
 the points of excitement at which
 the exhalations ^{that produce} ~~produce~~ of those opposite
 grades of Intermittent fever, usually
 produce their ^{marked} effects. —

The ~~the~~ ~~the~~ cold and gloom of winter
 like the ^{depression} ~~hand of~~ ~~the~~ ~~the~~ of old
 age, call for more generous aliments
 and drinks than any of the seasons
 that preceded it. ~~It is at this~~
~~time that convivial pleasures are~~



most safe and agreeable. The Surfeit
of beef, the sparkling ale, and the ^{full} bumper
glass of wine when opposed to the debility
induced upon the system by cold, and the
subsequent exercises to which it disposes,
 seldom ^{under the jovial} ~~do any harm~~ ^{inimical to} ~~improve~~ health
^{or} ~~prolongation~~ life. It is ~~to~~ ^{when it} ~~they~~
~~are taken in moderation.~~ ~~In the midst of~~
It is only when its pleasures are enjoyed
in excess, that they are hurtful. It would
be well if a person ~~who~~ were employed
~~to stand in at the end of~~ as a Spectator
in all large ^{dining} ~~company~~ Companies, whose
office should resemble that of the promotor of the
~~banquets~~ ~~it should be~~ when he saw any
Roman Emperor, and who
passion eat or drink more than ^{the}
proper for him, ^{should} ~~to~~ ^{whisper in his ear} ~~talk out to him in~~
~~the language addressed to the Roman~~
~~emperors~~ "Remember ^{there is sickness in that} ~~that not another~~
plate, and death in that bottle!"

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The transition is a natural one, from mentioning the ~~of~~ bad effects of ~~excess~~ in eating and drinking, ~~to take notice the effects of a privacy of Aliment and drinks upon health and life, and to point out the means of obviating the effects of a privacy of Aliments & Drinks upon health and life, an evil to which the Citizens of the United States are sometimes exposed not only from sea Voyages in common with other Nations, but from hunting, and travelling in new and unsettled Countries.~~

~~1 Tying a belt tight round the belly. The Indians use this remedy against hunger. The Gosh belt used by the Gosh in Egypt as a part of Dress, probably serves the~~

1. V Drinking water, ~~or exposing the body~~
~~to the external air at night so as to~~
~~improve the dew when water cannot~~
~~be obtained~~ Redi found by many expe-
-riments that animals that drank
water lived much longer under equal
circumstances than those that did not.
Exposing the body to the external air
at night so as to enable it to imbibes
the ~~the~~ dew, where water cannot be
had, has been found to preserve and
prolong life where there has been a
total want of food.

The means for this purpose which have
been suggested by Avident, on reasoning, and
~~from prospect~~ sanctioned by experience are V
2 The Use of certain calcareous substances
particularly the powder of Calined Oyster
Shells. They act by ~~thrusting~~ the Acid which
is in the Stomach ~~from the~~ ^{from its diseased state}
Action induced in it by hunger. ~~Lead dust~~
3 Saw dust, more especially that which
is ~~made from~~ Obtained from the hickory,
the Cedar, and huper maple trees. Dr. Franklin
was once threatened with ruin by a
man of great influence in Philad^a.
whom he had ^{indignantly} offended by a ^{paragraph} ~~publication~~
in one of his newspapers. The Doctor
invited a few of his friends to dine
with him the next day. His dinner
consisted of some weak mutton broth,
and a pudding. After dinner he asked
his guests how they liked his pudding?

✓ A brother of the Doctor, who was a Sea Captain kept a Cargo of horses alive for three weeks by feeding them upon nothing but the fine chips of Cedar mixed in water, & afterwards sprinkled with a little flour.

✶ 4 Opium ~~or~~ in Substance, or liquid Laudanum. The Turks also lessen the pain ~~and fatigues~~ of hunger, as well as fatigue of body by small doses ^{of this medicine} taken in inscriptions of this medicine.

✶ ~~The Russian peasants obviate hunger by eating half baked bread, and the Irish peasants do the same thing by eating half boiled potatoes~~

They all said very well. He then
 told them it was prepared from saw
 dust with a ^{few} spoonful of ~~small quantity~~ of flour,
 and that ~~the whole dinner he had given~~
~~them had cost him but sixpence - and that~~
~~costs cost them but his reason for giving~~ ^{he said}
 them so frugal ~~meal~~ ^{to} ~~was to~~
~~show the he was,~~ ^{to determine a} ~~small~~ ^{eventual}
~~simple question, and that was~~
~~being the name of the gentleman he~~
~~had offended had threatened to ruin him,~~
 and that he was asked whether they
 thought it were possible to the ruin a
 man that could not only dine himself,
 but entertain his friends ~~upon~~ for
 the trifling sum he had mentioned.
 ✓ Of the use of Tobacco. ~~It is~~ This weed so
 useful or hurtful when habitually used,
 has in many instances obviated the

✓ remedies for hunger will be admitted
by reflecting that animal life is sup-
ported by substances taken into the
stomach which act only by their
stimulus, or weight, without con-
taining a ~~fractional~~ particle of nourish-
ing matter in them.

pain and danger of hunger. It acts by creating a discharge of saliva into the stomach, ~~blunting the sensation of hunger~~ which also by blunting the sensation of ^{the} ~~the~~ last hunger. The ~~most~~ efficiency of the ~~two~~ last

~~6 The matter discharged in sweat. They contain a portion of dissolved fat, and of course a small quantity of nourishing matter. Mr. Hollowell and several of his fellow sufferers in the black hole of Calcutta were kept alive by feeding upon this one, and each other discharges from the skin.~~

~~7 The smell of certain acid or pungent substances. There is an account of in the German Ephemerides of a woman who was kept alive nine days by constantly smelling the Oil of Amber.~~

~~19. Balking the body in salt or fresh water. It lessens the pains of hunger~~

v. 7. Tying a belt round the ^{belly} ~~body~~.
The Indians use this remedy against
hunger. The belt used by the Copts
in Egypt as a part of dress, probably
serves the same purpose.

by its action upon the skin, ~~and~~ some
of the water is probably inhaled by the
lungs. —

When persons are about to be exposed
to situations in which it is possible
they may suffer from the want of
^{food,} ~~extraordinary provisions~~, they should carry
with them a small quantity of those
substances that contain the ^{greatest portion} ~~quantity~~
of nourishing ^{and stimulating} matter in the smallest
compass. These are Sugar, Oil, Spirit and
Liquid Laudanum.

1880

The means of obtaining thirst where
fresh water, and other liquids cannot be obtained.

are
1 Chewing tobacco. It abated both hunger
and thirst in ^{a gentleman} ~~Mr Davis~~ ^{one of the party} who
~~was~~ ^{was} taken off the Rose in
bloom which vessel in her passage
from Charleston to New York in Septem^r
1806.

2 Chewing lead. This excites a copious
discharge of saliva ^{into the mouth} which abates thirst.
- It had that effect upon two other of the
gentlemen who survived the melancholy
catastrophe of the Rose in Bloom.

3 Mr Hollowell and several of his fellow
sufferers in the black hole at Calcutta
^{in the East Indies,}
were kept alive by sucking their
own and each others' linen wetted

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It would give me pleasure to proceed
in pointing out the means of preserving
health as far they are connected with
the ²structure and materials of our houses,
with air - Drugs, exercise & the employ-
ment of the intellectual faculties, but
these would encroach too much upon the
more important parts of our course. I
shall however glance at them in our
pathology.

~~So~~ I shall dismiss the subjects of our
~~attention~~ from last lectures, by sum-
-ming that Lord Bacon ^{says} ~~recommends~~ that
~~all~~ ^{kind of} science ~~should be~~ ^{should be} ~~which is~~ ^{which is} ~~not~~
down to the business and concerns of
mankind. I have endeavored to

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~~I~~ I have failed in ~~for~~ acting up to
the end of this illustrious philosopher
in bringing the ~~sub~~ science subjects of
the ^{four last} ~~four~~ lectures I have delivered down
to the business and bosoms, ^{of my class} I hope I
ended it at least to ~~that~~

I have aimed to ~~do in the four lectures~~
~~which I have last delivered, and now~~
I have aimed to bring down the science
of ~~life & the~~ ^{your} ~~which has composed our four last lectures~~

not only to ^{your} ~~the~~ business & bosoms, but
to ^{your} ~~the~~ appetites - stomachs and constitutions,
as well as to those persons who
shall hereafter become the subjects of
your ~~attention~~ care in the practice of
medicine.

with the profuse sweats which were discharged from their bodies under their agency, of from thirst and ~~the~~ the inhalation of bad air. —

4 Bathing the body in salt water. It: ^{by its action upon the skin} lessens the pains of thirst, ~~and some~~ ^{vapor of the} of the water is ~~a fresh fluid~~ which is always fresh) is probably inhaled by the lungs. not absorbed by pores. Skin a coat of mail.

1

100

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100





~~The means which are intended to~~
 To protect ~~us~~ from the injuries of
 an open sky, and inclement weather,
 houses have been the habitations of ^{man in his}
 civilized state ~~ever~~ in all ages & countries. ~~But to~~
 under them subservient for the pur-
 : poses for which they were intended,
~~that is the preservation of health & life,~~
 it will be proper to make a few
 remarks upon their ^{situation,} materials, ^{and} ~~their~~
 form, ~~so as far as possible~~ ^{a healthy} ~~as agreeable~~
^{also} ~~and upon~~ the means of keeping
^{cool, warm} ~~temperatures of air,~~ and of defending them from
 those accidents to which they are exposed,
 and which endanger health & life.

✓ fourth front 1/3 lip full.

The situation of a house, or of a
 Collection of houses, should command
 the utmost Attention. The old Romans
 made it a practice to examine the livers
 of the animals that fed in the neighbour-
 hood of the places upon which they con-
 templated to build their houses, before they
 purchased them. If these livers were
 sound, it was considered as a sign that
 the Country around was free from putrid
 exhalations, for these affect the livers of
 dumb animals in common with the
 same part ~~of~~ in the human Species.
 Modern observations has confirmed the
 propriety of this ~~practice~~ ^{practice} in the United States,
 for it has been found in many instances

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that inflammation, Schismus, or Ulcers
in the livers ^{of domestic animals} ~~are common in the fall in~~
~~any the prevalence is~~ bilious fever in
the summer & autumnal months & ^{in the hungry pe-}
= ries.

Where this mark of a healthy situation
faint is not resorted to, a house should always
be sheltered as much as possible from marshy
and low grounds, ^{and mill dams.} ~~by the water~~ ^{by} hills or a
streams of water
Cypress of wood reserved from the forest trees,
or planted for that purpose. A situation
near a Creek or river is safe, only where
the water flows ^{along by} ~~over~~ a gravelly or sandy
shore. —

in the United States
Houses are usually built of logs recently
cut from the woods - here logs with the
bark hewed off them - boards - stones
and brick. —

Log houses built of logs with the
bark upon them soon decay from the
moisture that is confined between the
bark and the log. This decay or putre-
faction of the wood is accompanied with
an unpleasant ^{odor} smell, and frequently
all. The vapor ~~evolved~~ from which
forms this odor has is of an unwhol-
some nature. It rendered a whole
regiment of ^{American} soldiers sickly that were
confined in huts made of ~~new~~ logs
the second year after they were erected,
in the year 1792 upon the

They should ~~now~~ therefore be avoided as the habitations of men.

2 Dried logs are more safe, - from the ^{more easy} escape of moisture from them in consequence of the bark being taken from them.

3 Houses built of boards thoroughly seasoned are generally healthy, ~~while~~ ~~they continue to be found~~ when the boards decay, they emit an exhalation which has been known to produce remitting and intermitting fevers. This decay may be prevented for many years ^{not} by being painted, provided it be done ^{until} ~~after~~ they are thoroughly dry. ^{Unless} ~~if~~ ^{this be} ~~not~~ attended to, the painting, by

V They are rendered ^{cooler} ~~warmer~~ in Summer & warmer in Winter by filling the space between the inside and outside boards with ~~sand~~ shavings or sand. - This ^{is} ~~is~~ ^{is} ~~is~~ destroyed by water soaking - how

VI This is the case in a more especial manner with stone for some time after it is taken out of the ground, for the vegetable and mineral matters which adhere to it undergo such changes from the action of air upon them as to emit an unhealthy

- Vapor. This source of disease was so universally admitted in Ancient Rome that a house was never inhabited by her wealthy Citizens until after it had been built one year.

VII It is customary for some places to

confining the moisture within the
boards, accelerates their decay. ^v

4 Brick Stone and brick ^{healthy and} ~~concrete~~ ^{the} durable houses, ~~and~~ ^{they} ~~where~~ they
are dryer before, than after they are
plastered from ~~the~~ ^{the} their absorbing
the moisture that settles upon them.
But they are not the more healthy
upon this account, ~~far~~ ^{for} for matters
capable of putrefaction lodge in their
interstices, and thus infect the air of
the house. ^{exhalation of this vapor} It is by preventing this
probably, that plaster and ^{frequent} white wash,
^{ing} ^{found} ⁱⁿ ^{all} ^{countries} ^{to} ^{prevent}
ⁱⁿ ^{protecting} ^{the} ^{houses} ^{healthy} ^{from} ^{those}
^{diseases} ~~from~~ which are generated by domestic
~~causes~~ filth.

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A house should always, when it is practicable,
be placed upon an elevated piece of ground. ~~The~~
~~The~~ ~~front part of the house~~ should
be exposed to the South in the United States.
This position renders a house cooler and
warmer ~~in~~ in winter from the sun
in summer.

Other exposure.

~~In the~~ ~~the windows should be as far as possible~~
~~country houses~~ ~~are~~ ~~advantageous~~ ~~will arise~~
~~from having houses~~ ~~should be built with~~
~~houses~~ ~~and~~ ~~should be built without cellars.~~ ~~and~~
generate foul air ~~which~~ from a variety of
sources. ~~the usual contents of the cellars~~
~~and they render a house cold in winter.~~
should be kept in a Cave ^{or} dug for the purpose,
with the external air
in the neighborhood of the house. ~~the~~ where
this ^{precept} ~~rule~~ is not followed, the ~~case~~ there
should be no communication with ~~any~~ the
cellar except through the medium of an
external cellar door, or there should be a
chimney in the cellar. ~~The advantage of~~ ^{from the}



~~a ^{the} ^{constant} ^{renewal} of the~~ constant renewal of the
air by means of a Chimney. Provisions are
less apt to become mouldy than where this
is not the case, and the Cellar is rendered a
less ^{urgent} ~~common~~ cause of Disease. In Cities this
practice should be universal.

Large Rooms ^{with high ceilings} are ^{hotter} ~~cooler~~ in ^{summer} ~~summer~~ than
small ones. ^{in the} ~~high domes~~ The Dome of St
Paul's Church in London is ^{the} ~~the~~ the mercury is
always 8 degrees lower in ^{summer} ~~hot~~ ^{hot} weather
than in any of the common dwellinghouses
in London. In the Bank of Pennsylvania it
descends Degrees in the same season, below
its standard in every other part of the
city of Philadelphia.

The windows of a house should open
in a direction opposite to each other. They
will be cooler in summer & warmer in
winter, when they descend to the level of the

✓ Ground floors have been found to be more
healthy than those of wood. They act
by absorbing filth and heat. The ~~low~~
comparative healthiness of the Chinese,
in their crowded cities, and of the Indians
in their filthy wigwags, depends in
part upon their eating - sleeping - and
living upon ground floors. Count Leve
first suggested the ^{advantages} ~~greater healthiness~~ of
^{earthen} ~~ground~~ floors above wooden floors for
military hospitals. They were adopted
with great success by the American
Army during the revolutionary war.
They ^{should} ~~may~~ be used in kitchens in
warm weather, at which time they
are ^{most necessary} ~~are~~ calculated to be most useful.

Both Sashes
 floor. ~~They~~ ^{there are} should be made to rise and
 fall the inner windows in a house, com-
 -patible with a sufficiency^{of} light, the
 the heat of the ~~atmosphere~~ ^{air} is
 better. ~~They houses are thereby rendered~~
~~unpleasant in summer~~ thereby opened in
 summer, and its cold~~ness~~ in winter.

✓ To prevent disease, after a house is finished
 it should not be inhabited too soon after it is
 plastered.

After a house is occupied ~~diseases~~ Diseases
 sometimes originate from the following unsu-
 -spected sources.

1. The putrefaction of wood put up for
 fuel in a green state in a cellar. An
 instance of a ~~common~~ remitting fever
 occurred annually from this cause
 in Philadelphia many years ago. It
 was prevented by ~~the~~ ^{laying in} dry wood
 for fuel, ~~as soon as~~ ^{as} soon of the

3 V The water used by a family ^{is sometimes} ~~is~~ ^{impregnated} ~~times of an unwholesome quality from~~
~~naturally or accidentally~~ ^{impregnation} with some mineral substances. A large family suffered for for many years in Worcester the late Dr Wall tells us from paralytic & neural Com-
plaints. after the death of eight of them it was discovered that their sickness and mortality arose from drinking water from a pump in which this bucket was placed in a leaden cylinder, ^{and which exhibited} ~~which was exactly~~ marks that the water had acted upon it. see also from Dulrell ~~that~~ 5 puthⁿ on water.

4 Air which has long been confined in a room house. ~~The~~ Its hurtful effects may be prevented by opening and air-
-ing it before it is ~~as soon~~ occupied. ~~Catacombs are often~~ The same

by the attending physician
cause of the fever was pointed out ~~to the~~
family of the family.

2 ~~stagnating~~ water from rain or other sources
stagnating in a Celler. Many families have
sickened, and some of its members ^{have} died from
this cause. It may be obviated when it
arises from rain by or from subterraneous
springs by above the floor of the Celler, by
cutting a Canal round the house, and
covering it with boards and earth, or
~~the~~ building an arch over it. If it arise
from a spring in the Celler it may be
removed by Digging a well in it. The
water, ~~will~~ if not abundant, will
soon concentrate itself in this well in
which ^{if it should not be} it is inoffensive, it may be
made so by covering it with boards, or
erecting an Arch of brick or stone over it.

— precaution should be used every
Saturday with Churches that have
the day before they are appropriated
to public worship especially in warm
weather.

~~After~~ As many Diseases arise from
^{excess of} the coldness, dampness & want of
 Cleanliness in houses. it will be proper
 to mention the means of preventing
 them from each of those Causes.

1 There have been many disputes con-
 -cerning the effects of cold upon the
 human body ^{in producing} ~~as the Cause of~~ Diseases.
 The controversy may be settled in a few
 words by remarking that where the
 Action of the Cold is uniform upon the
 human body it is not in a certain
 degree unfriendly to health & life. The Indians
 do not suffer from it only because they
 are constantly exposed to it. Sir John
 Sinclair mentions the history of a Dr.



Lyne a physician in Ireland who ^{lived in} enjoyed
uninterrupted good health until he was
85 years ^{old} in a house in which the doors
and windows were constantly open. He
used to say "a ^{not} house ~~was~~ could be healthy,
unless a dog could get under the door, & a
bird get in at a window." A citizen of
Philadelphia once told his guests ^{who} ~~of his~~
~~the health of his house~~ ~~one, that while~~ complained of
the coldness of his dining room, that ~~it~~
gave him a great advantage over his
fellow citizens, for as there was no dif-
ference between the temperature of his
room, and ^{that of} the ^{air in the} street, he never caught
cold by changing his atmosphere. Good
health upon the terms that have been
mentioned is purchased at a high and
precarious price. It requires perpetual
vigilance and constant strife to ^{protect} guard



the body against being surprised by
 a warm room, and ~~admitting the~~
~~but~~ It secludes from all society, not
 disposed to acquire a similar ^{habit} degree of
 insensibility to cold, and admitting this
 habit to be acquired, it places a man
 upon a footing with the farmers, ^{house} ~~man~~
 that had been taught to ~~live in~~ by his
 master to live without eating. The
 experiment succeeded, but the horse
 died immediately afterwards.

It is more agreeable to nature, ^{&c.} to
 the customs of civilized life, to ~~and it is~~
 certainly ~~more~~ ^{disagreeable} pleasant, to live above
 the painful degrees of cold, ~~which~~ in our
 houses, and [&] it certainly contributes
 to health and longevity, to subject the body
 to the alternate action of heat & cold,

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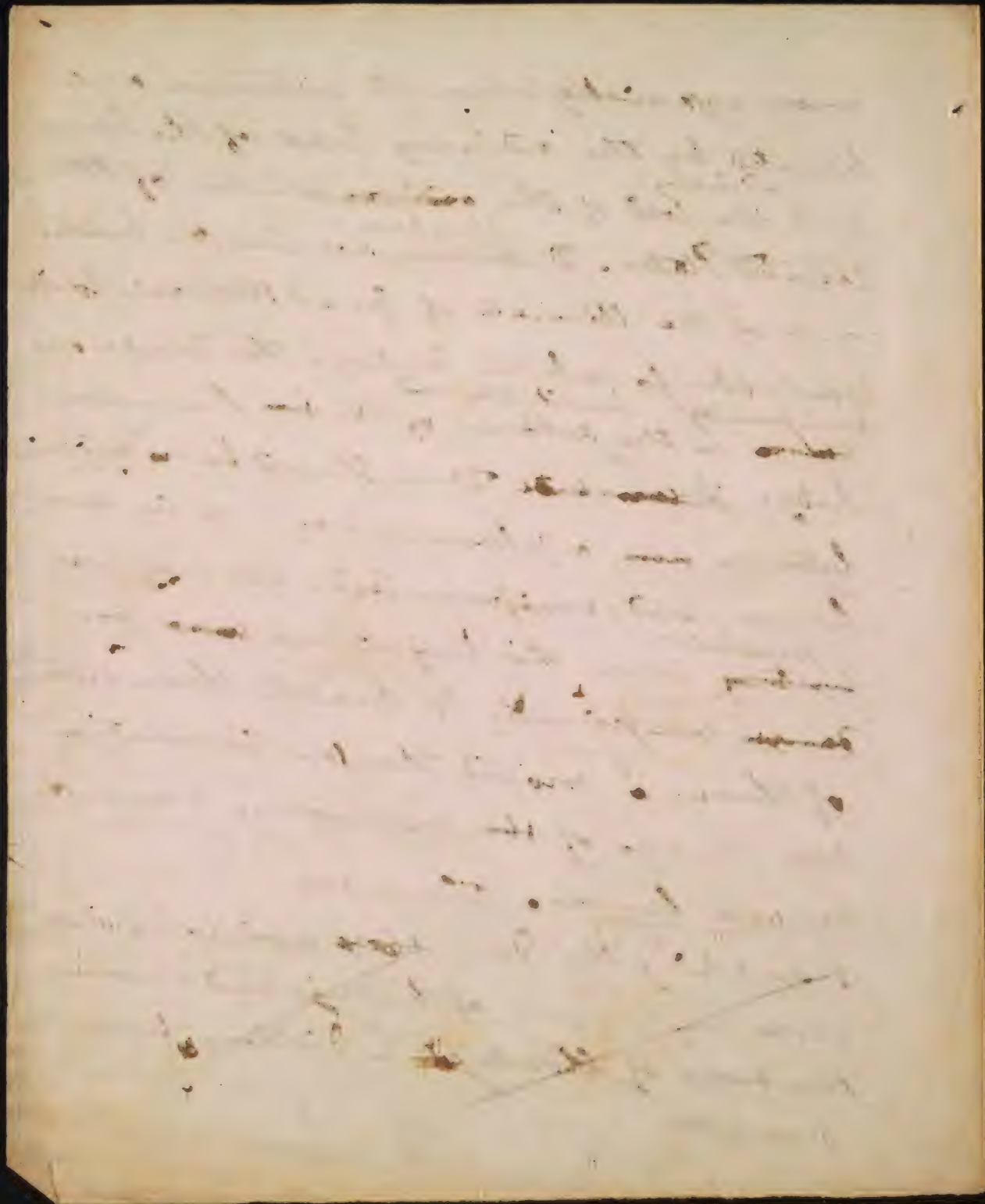
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more especially when its extremes are
limited by the ordinary heat of the houses,
and the ^{ordinary} cold of the ~~ordinary~~ winters of the
United States. Dr. ^{Huxham} ~~Hillary~~ ascribes the healthi-
ness of the climate of Great Britain to its
variableness which destroys the dangerous
uniformity ^{sensibility and} ~~causes~~ in the actions of the ~~the~~ human
body. ~~I conclude~~ There should be no medium
between ~~us~~ a pleasant warmth in our
houses, and even more cold. All half way
^{practices} ~~systems~~ upon this subject, are ~~more~~ more
unfriendly to health than either
of them. I need therefore to mention
the means of ~~the~~ promoting warmth
in our houses. These are
~~making the doors ~~stop~~ and windows~~
~~close by means of linstings and removing~~
~~the doors of closets at a distance from the~~
~~fire place.~~



on warm water Bath

see § 215 of Com. place
book

on all the indispositions
run up all in ^{one feed} ~~them~~

see diseases from diet &c in no 4.5 of
Pathology - of Abouth in no 6.

Bring in ⁺ "Salernianella" Disease of
Education". see no 6 on under exercises of
mind. Under Disease of Education include
1. Disproportionate Studies 2 Secondary ^{not to close} & close
schools. 3 from Vice with some principles
lets. Bring in on old age from Path. ^{396.} 396.
on govern^{ment} mind - see Path. no 7.

See fact from Dr. Lush on preventing
effects of cold by oils &c parts exposed
Tracts of feet in cold water by Dr. Jefferson
Shr. M. Pinson. ^{Unburied - biscuit &c}
half done bread fixed in Africa
curious flow of digestion.







1. By means of fires. They should ^{close} these
 are either open, or confined in stoves.
~~of iron, iron brick or of clay~~ Open
 fires placed ^{upon hearths with} chimneys contracted
 in the manner directed by Court
 Rufford. throw out a great deal of
 heat. ~~and~~ ~~when~~ the heat is increased
 by suffering the ashes to accumulate
 in the fire place to such a degree as to
 prevent the wood coming in contact with
 it. In a room thus ~~exposed~~, the
 venerable Dr Franklin passed the last
 winters of his life in Philadelphia. The
 heat is diffused more extensively through
 a room, ~~and is more~~ when the ~~wood~~
 fuel is placed in ~~an~~ open stove, such
 as bear the names of this inventor

Franklin and Rittenhouse.

Close stoves have many Advantages over open fires. They diffuse the heat more equally, ~~and~~ by which means it is applied to every part of the body. They save a great deal of labor ~~in~~ ^{in the Country to} ~~and expense~~ ^{in cutting and hauling wood,} ~~in fuel~~ man and beast, and a great deal of expense in cities in purchasing it. They save ~~time to~~ all that time to do domestic industry which is lost in waiting ~~still a room is fed~~ supplying an open fire with wood, and in ~~or burning~~ ^{removing} ~~even~~ every hour or two from a remote part of a room to warm the ~~f~~ hands and feet. ^{of a close stove} It is to be regretted that the heat ~~thus obtained, is disagreeable to many~~ ~~persons~~ produces head ach, languor, and sickness in many people. They ~~may~~ ^{have} all been prevented in many instances

4 In driving warmth whether from an
open fire, or a stove great should be
taken to avoid constantly ^{exposing} ~~occupying~~
some ^{side} ~~part~~ of the body to it. It will be one
side by this means becomes more stimulated
than the other, and a foundation is thus
laid for several diseases.

4 The under part of the floors of those
rooms which are immediately above
the cellar, should be lathed and plastered;
~~much~~ ^{as} the warmth of those rooms
is thereby ^{considerably} ~~very much~~ increased. It will
be increased still more by filling the
space between the floor and the lathing
with ^{fine dust} shavings, ashes or sand. —

by placing a bowl of water upon the
 floor. The evaporation of this water tem-
 -pers the heat, and communicates
 something to the air which obviates
 its unpleasant and offensive qualities.

2 The fuel for fires in the United
 States is wood and Coal. the vivid flame
 of birch wood has been known to pro-
 -duce inflammation of the eyes. The
 vapor emitted by Coal has been found ^{to}
 increase a cough ^{both} ~~in persons~~ ^{to}
~~prejudicial to the lungs.~~ They should be
 avoided by persons subject to those diseases.

3 The heat of a room in what ever way
 it is produced is confined in some countries
 by double doors and windows. In the United
 States what is called lising, or nailing the
 of cloths to the sides of the doors and windows
 is resorted to for that purpose. —
~~part of the floor of those rooms~~ ^{are} ~~that floor part of a floor~~ ^{are} ~~which~~ ^{are} ~~imprudently~~
 above the cellar should be lathed & plastered. A



The excessive heat of a house in summer should be moderated by the following means.

- 1 In the Country by piazzas and trees
- 2 In Cities by ~~shutter~~ closing ^{not only the} ~~the doors and~~ windows ^{but the} ~~and~~ window shutters of the house during the day of all those rooms which are not occupied in the day time. A room thus defended from the sun is ^{Depos} cooler than a room that is exposed to it. The windows should be opened after night when they ~~are~~ to admit cool and fresh Air.

3 By keeping the fire places and chimneys open. By this means a constant circulation of air is kept up in a settling room and a bed chamber, for the air being ⁱⁿ ~~warmer~~ above and below the chimney than the air that is in it descends by its weight in the

✓ It is in consequence of this, that
the coldest seat in a room is near
to a Chimney ⁱⁿ ~~the~~ hot weather.
Hence, one third of cooling a room.

~~the day time during the day, and being~~

~~The heat of summer when expanse is~~
~~opened cooled cooler than the air~~
 being cooler than the ^{external} air above it, or
 the air in the house, descends during
 the day, and being warm in the
 night than the air in ~~the~~ above, &
 below it in the house, it ascends during
 the night, and thus a perpetual and
 cooling circulation of air is kept up
 in a sitting room and a bed chamber.

3 Heat is less ~~proven~~ felt upon the
 lower floor of a house than in its
 upper stories from the contiguity of
 the earth abstracting & favouring its
 abstraction.



Chimneys is essential to health in every house. ~~It~~ It should extend

1 To the ^{ailler} Linch where ~~the~~ Kitchen has made them necessary. They are rendered inoffensive by means of what are called in London Stink traps - that is, by ~~two~~ a small well communicating with a deep one by means of a grate which ^{permits no-} ~~intercepting~~ nothing but water to pass through it, and which penetrates into the earth. The matters retained by the grate, are easily taken away by the hand once or twice a week. When this contrivance is not used, Linch should be cleaned ~~and every month~~ as soon as they emit the least offensive odor. Let none the neglect of this direction, ~~not~~ ^{have often} only servants, but a whole family have been infected with bilious fevers.

1890

1875

2 The offals of the kitchen whether of vegetable or animal nature where
 above, or hogs are not ~~to~~ at hand to
 consume them, should be thrown into
 the fire. In destroying those matters in
 this way, we imitate the practice recom-
 mended by in the Levitical Law

3 It is common to throw the ~~body~~^{body}
 and bed linen of a family into a
 basket, or to enclose it in a bag, where
 it is suffered to remain until it is
 taken out to be washed. This linen
 is often impregnated with perspiration,
 & sometimes moist from sweat in con-
 -sequence of which it undergoes a change



When deprived of air which disposes it
to produce ^{the same} ~~that~~ kind of fever which is
generated in jails and prison ships
from filth and confinement. Washer
women have it is said been thus infected
with that fever. The ^{cause} ~~source~~ of it should
be obviated by exposing the linen to the
air ~~rooms~~ in an open room or closet
before it is sent to ^{be} ~~the~~ washed. —

3 Every ^{room & closet} ~~part~~ of a house as well as the
keller and kitchen should be frequently
~~open~~ aired, and if necessary, cleaned. It
would be a good practice if the Inspectors
of nuisances in our cities ~~would~~ were
permitted to imitate the ~~prudent~~ conduct
of Dean Swift who after entering the
^{dining room} ~~parlour~~ of a female friend with

whom he was invited to dine, refused to sit down. but suddenly walked up stairs, and examined every room and closet in her house. Upon returning into her ~~private~~ drawing room, he said: "I perceive madam, you are a good house wife. I give you no credit for the neatness and cleanliness of this room in which you expected to see company, but I have found ~~all~~ every part of your house in the same neat and order."

4 Rats and mice by dying in the hollow places of walls emit ^{a putrid} ~~an~~ offensive odor which is dangerous to health. They ~~should~~ ^{and their} ~~throat be~~ destroyed by traps, ~~as~~ ^{by} ~~poison~~ ^{poison}

5
V ~~and~~ It was probably to prevent the
extensive mischief they are capable of
doing, that even the sight of them is
all so generally ~~attended~~ with fear
or hatred in all ranks of people.

There are ^{three} ~~four~~ ways of destroying them

1 by means of Cats. 2 by means of traps. 3 by ~~putting~~ mixing Arsenic with such aliments as they are fond of, and placing them in their way.

This method of destroying rats should never be adopted. The poison intended for them

has sometimes been eaten by Children and with fatal consequences. Moreover

when the rats when killed in this way, putrify in their holes, and thus

infect a whole house. ^{But they may be driven out of a house}

4 By ~~tying a bell around the neck of one~~ ^{catching}

~~of them~~ and giving such a mark of deformity upon a living rat and letting him go afterwards. Shaving or burning the hair off his skin has been found to ~~be~~ answer this purpose. All the rats of a house fly from him.

mosquitoes by their bites produce inflammation,
 sores and fevers. ~~This~~ ~~these~~ ~~flies~~ annoy us
 by their bites, and ~~even~~ ~~they~~ This generation
~~near a house~~ should be prevented by removing
 all stagnating water from near a house.
 This ~~to~~ annoyance may be obviated in a
 certain degree by protecting those parts of the
 body which are most liable to suffer from
 them by means of coverings of leather, or in the
 day time, and by what are called mosquito
 curtains during the night.

Flies though seldom or never a Cause of Disease,
 are Sources of Unpleasantness ~~to~~ and Vexation to most
 people. They are destroyed by ^{first} ~~attracting~~ them to
 a board ~~and~~ covering with molasses and ~~con-~~
~~structed~~ with the Ceiling of a room, ^{or a piazza,} and then
 exploding gun powder under them. They may
 be kept out of a bed room by keeping it shut up
 in the day time, or they may be driven out of it
 by means of a handkerchief or napkin after night.

[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]

rats when thus destroyed, or driven away
the return of ~~others~~ ^{rats} should be prevented by
repairing the injuries which time does
to all houses. Whenever they appear,
they are a call for the mason ^{or} ~~and~~
the Carpenter. They are kindly sent to
~~teach us Democracy and Cleanliness.~~ They
may be considered as the first warning of
the approaching waste of our property, &
as the punishment of the want of clean-
-liness. ~~They are in the latter view, of them,~~
the lice of our houses and ^{favours}.
5 Bugs by ^{their poisonous bites & peculiar} ~~preventing sleep~~ and by ~~their~~
feton sometimes ^{prevent sleep and thus} ~~disorder~~ ^{bring on diseases}
upon weak and insupportable habits. They
are like rats and mice the punishment
of bad housekeeping. They are to be prevented
by cleanliness. The following

[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]

Diseases of the eyes are often contracted by means of smoke; and Colds are sometimes taken by sitting with our windows or Doors partly open, to let it out of our houses. It is of consequence therefore to point out its Causes, and its remedies. - Smoke is retained in a room instead of being carried ^{off} by a Chimney, ~~by the following~~ ^{may, by the following} 1 by the room being too small ~~in~~ in proportion to the size of the fire place. This is only to be cured by contracting the fire place. 2 by the room being ^{too} tight as to exclude ^{the fresh air} all air through the sides of the windows and door. This often occurs in new

✓ 3. By the door of the room being placed
so near the fire place as to ~~prevent~~ ^{prevent}
~~to~~ ^{prevent} ~~great a quantity of~~ air upon
it ~~at once~~ faster than it can
be supplied, by which means it drives
the smoke into the room. If it ^{cannot} ~~be~~
~~prevented~~ ^{prevented} ~~by removing the door to a~~
~~greater distance from the fire place,~~
or by causing the ^{door to} open from the
fire, the door should be removed to
a greater distance from it.

houses, and ceases upon the shrinking of
the wood of which the doors & windows
~~are made~~. Smoke from this cause is
cured by a Ventilator, or a movable
pane of glass in the upper part of the
room door. But it ceases of itself upon
the shrinking of the wood of which the
doors and windows ^{of the room} are made. V

4 By the large fire of the funnel of the
Chimney immediately above the fire
place. ~~Smoke from this cause is~~
~~Count Rumford has this~~
~~was~~ prevented by contracting this
funnel agreeably to the plan advised
by Count Rumford, and adapted with
general success in many parts of the
United States. ~~The~~

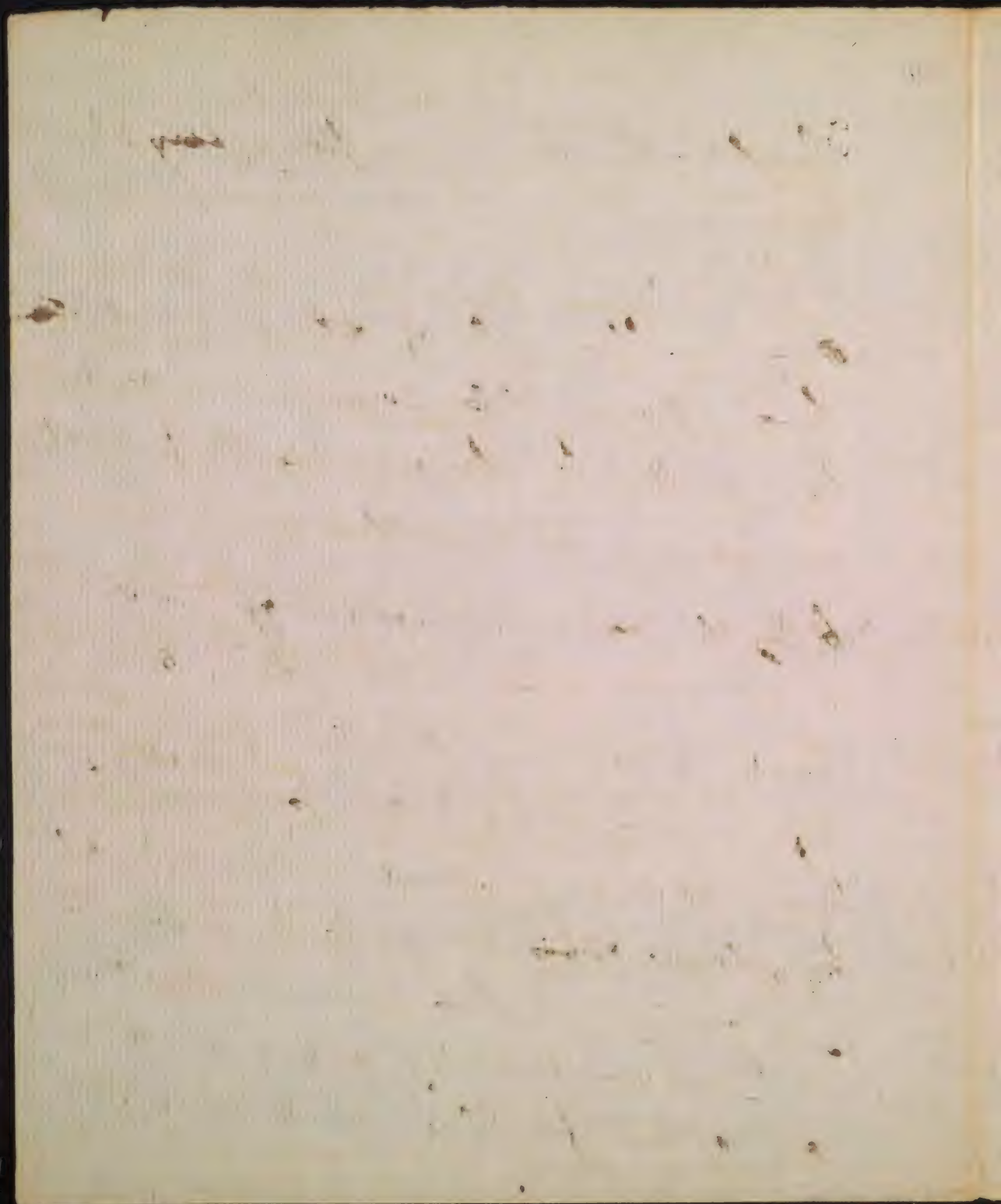
5 By a want of proportion between
the width of a Chimney and its

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is arranged in several horizontal lines across the page.]

the funnels ^{or} chimneys
 light. In the lower story ^{they} should
 be wider than in the upper stories of
 a house.

60 By the throat of the funnel. This
 smoke from this cause can only
 be remedied by lengthening the funnel,
 or opening its width.

70 By the communication of two or
 more chimneys with each other.
 Smoke arises in this case from a
 deficiency of rarefied air to carry ^{up all} the
 smoke that is produced in the several
 fire places. ~~This~~ It is to be prevented
 by stopping up this communication,
 or by never making a fire in but
 one of the fire places at a time.



the tops of neighbouring houses,
§ By ~~the Chimney~~ ^{the tops of neighbouring houses,}
or hills projecting above the top of a
Chimney, which enables the wind
~~when it flows blows from a certain~~
~~direction to drive the smoke backwards~~
into a room. ~~This~~ It is to be prevented
by raising the Chimney above the adja-
cent houses or hills; ~~and~~ but if this
cannot be done by placing what is called
a barn cap upon the top of the Chimney,
that is a cap covered above, and closed
on three of its sides, and so made ^{so as} to oppose
those sides to the wind that
occasions the smoke.

§ By the ~~Chimney~~ funnel of the Chimney
being narrower above than it is below, or
by the irregularity of its course upwards.
~~This is a very frequent Cause of Smoke~~
~~from a Chimney The Cause of Smoke~~

[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]

from this cause is obviously from the
 resistance which the ~~the~~ converging sides of
 the Chimney give to the smoke ^{and at}
~~those places where~~ ^{to the diminution of the}
~~resistance to the diminution of the action~~
 action of ^{upon it.}
 of the rarified Air ~~upon it~~ acts with
 a diminished force ~~upon it~~ the remedy
 for smoke from this cause is to
 lessen the resistance ^{that is given to}
^{upwards and} to the smoke ~~by making~~
 pass out of the Chimney, ~~is to sealing~~
 the Chimney. as wide above as it is
 below, ~~or perhaps a little~~ It will more
 effectually prevent carry off the smoke
 if it made a little wider.

Philad

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4. To prevent fire ascending from the first story, form by means of blankets, a kind of dam on each of the intermediate stories, near their staircase, that shall confine the water that is thrown upon the roof, or into the windows. It will effectually check the progress of the fire downwards or upwards in brick and stone houses.

5. To prevent fire spreading to adjoining houses, cover them with wet blankets.

6. To extinguish fire in a chimney, shut the door and windows of the room. Throw a quart, or more of common salt into the fire. Hold, or nail a wet blanket before the fire place. If these means fail, throw a wet blanket down the chimney from the roof of the house. ✓

There is a method used in some countries of glaizing chimnies when they are built by burning common salt in them, which renders them so smooth, that no soot can adhere to them. Chimnies so constructed can never take fire.

Ladders are commonly used as the means of conveying persons from the windows of houses on fire. Would not a long and stiff pole, with a rope fixed at its upper end, be more portable, and convenient for this purpose?

At the same time
close all the fire places
that communicate with
the chimneys with the
chimney on fire.

12 Protect your house
from fire, by
lightning by means
of an electrical
conductor.

connected in

Mr. John Wesley when a
en out of a window in his fa-
chilt it was in flames, by one
upon the shoulders of another.
may be used to rescue persons
story of a house on fire, where
cannot be had with sufficient
or expedition.

A WATERMAN

ure of Pennsylvania

Life ~~and~~ is often endangered from
fires, ~~and~~ ^{often} health is ~~vitiated~~ ^{often} impaired
by burns, bruises, and the terror con-
=nected with ^{the destruction of a house by fire,} fire, where life is not de-
=stroyed. ~~To~~ To obviate these evils, ~~I shall~~
following directions which were first pub-
=lished by the Author in ^{Claypool's} American Daily
Advertiser ~~then~~ on the 3^d of February 1799.

Sudden Death, or Disturbing Diseases are
sometimes brought on by means ~~by~~ of
strokes of lightning. They are to be prevented
when out in the open air, by avoiding the
shelter of trees. In a house they are to be
prevented by means of ~~an~~ electrical conduc-
=tor, but where this has not been confide-
=red as an essential part of a house, care
should be taken during a thunder storm

*Close all the fire places connected in
one Chimney.*

Philadelphia, February 3.

For the American Daily Advertiser.

DIRECTIONS

For preventing Calamities by

FIRE.

*Recommended to all HOUSE-KEEPERS, to be
passed up in their Kitchens, or other parts of
their Houses.*

✓ **1. KEEP** your Chimnies and Stove-pipes
clean by sweeping them at least once
every month.

2. Never remove hot-ashes in a wooden
bucket, or a wooden vessel of any kind, and
look well to the ash hole.

3. After sweeping a hearth, see that the
hearth brush does not retain any particles of
fire, before you hang it up in its usual place.

4. Oblige all your servants to go to bed be-
fore you, every night, and inspect all your
fire places, before you retire to rest.—For
fear of accidents, let a bucket of water be
left in your kitchen every night. The writ-
ter of these directions once saved his house
from being consumed by fire, by this precau-
tion.

5. Do not permit a servant to carry a can-
dle to his bed room, if he sleeps in an unplas-
tered garret.

6. Cover up your fire carefully every night
in ashes. Let the unburnt parts of the bil-
lets, or chunks of wood, be placed next to
the hearth, by which means no sparks will
be emitted from the wood. Pour a little
water upon the burning ends of the wood
which are not completely covered by the ash-
es. Place before the fire a fender made of
sheet iron. This contrivance was well
known in England many years ago, by the
name of a *coverfeu*. It has lately received
from a top being added to it, the name of a
hood.

7. Remove papers and linen from near the
fire when you leave it, to a remote part of
the room.

8. Shut the doors of all the rooms in
which you leave fire at night. By thus ex-
cluding the supply of fresh air, you will pre-
vent a flame being kindled, should a coal or
spark fall upon the floor, or upon any other
combustible matter in the room. The smoke
which issues from this smothered fire will
find its way into every part of the house, and
by waking the family, may save it from de-
struction.

9. If sickness, or any other cause should
oblige you to leave a candle burning all night,
place it in such a situation as to be out of
the reach of rats. A house was once destr-
ed by a rat running away with a lighted can-
dle for the sake of the tallow, and conveying
it into a hole filled with rags, and other in-
flammable matters.

10. Never read in bed by candle light, es-
pecially if your bed be surrounded by cur-
tains.

11. Strictly forbid the use of segars in
your family at all times, but more especially
after night. May not the greater frequency
of fires in the United States than in former
years, be ascribed in part to the more gen-
eral use of segars by careless servants and chil-
dren? There is good reason to believe a house
was ~~late~~ set on fire in Northumberland coun-
ty, by a half consumed segar, which a negro
woman suddenly threw away, to prevent her
being detected by her master in the unheal-
thy and offensive practice of smoking. ~~W~~

In case of fire, attend to the following di-
rections, to prevent, or restrain its terrible
consequences.

1. Do not open the room or closet door where

The famous Mr. John Westley when a
child, was taken out of a window in his fa-
ther house whilst it was in flames, by one
man standing upon the shoulders of another.
This practice may be used to rescue persons
from the first story of a house on fire, where
other means cannot be had with sufficient
convenience or expedition.

~~A WARNING.~~

~~Signature of Pennsylvania~~

after night. May not the greater frequency of fires in the United States than in former years, be ascribed in part to the more general use of segars by careless servants and children? There is good reason to believe a house was lately set on fire in Northumberland county, by a half consumed segar, which a negro woman suddenly threw away, to prevent her being detected by her master in the unhealthy and offensive practice of smoking. ~~W~~

In case of fire, attend to the following directions, to prevent, or restrain its terrible consequences.

1. Do not open the room or closet door where you suspect the fire to be, until you have secured your family, and your most valuable effects, nor until you have collected a quantity of water to throw upon the fire, the moment a fresh supply of air excites it into a flame. Where water cannot conveniently be had, try to smother the fire by throwing two or three blankets over it. A British sea captain once saved a king's ship by throwing himself with a spread blanket in his arms, upon a fire which had broken out near the powder room. He was pensioned for life, for this wise and meritorious act.

2. In case it be impossible to escape by a stair case from a house on fire, shut the door of your bed chamber, and wait until help can be brought to secure your escape from a window.

3. If safety does not appear probable in this way, wrap yourselves up in a blanket, hold your breath, and rush thro' the flames. If water be at hand, first wet the blanket.

4. To prevent fire descending from the roof, or ascending from the first story, form by means of blankets, a kind of dam on each of the intermediate stories, near their staircase, that shall confine the water that is thrown upon the roof, or into the windows. It will effectually check the progress of the fire downwards or upwards in brick and stone houses.

5. To prevent fire spreading to adjoining houses, cover them with wet blankets.

6. To extinguish fire in a chimney, shut the door and windows of the room. Throw a quart, or more of common salt into the fire. Hold, or nail a wet blanket before the fire place. If these means fail, throw a wet blanket down the chimney from the roof of the house. ~~W~~

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Ladders are commonly used as the means of conveying persons from the windows of houses on fire. Would not a long and stiff pole, with a rope fixed at its upper end, be more portable, and convenient for this purpose?

At the same time close all the fire places that communicate with the chimney on fire.

12 Protect your house from fire, ~~by~~ from lightning by means of a rod an electrical conductor.

Places connected in

The famous Mr. John Westley when a child, was taken out of a window in his father's house whilst it was in flames, by one standing upon the shoulders of another. This practice may be used to rescue persons from the first story of a house on fire, where other means cannot be had with sufficient celerity or expedition.

~~A WARNING~~

Signature of Pennsylvania

s American D

FRIDAY, FEBRUARY 3,

DELPHIA:—Printed by DAVID C. and SEPTIMUS C

In Council, Annapolis January 5, 1797.

ORDERED, That the Resolutions passed by the General Assembly at their last session, respecting certificates and bills of credit, be published eight weeks successively in one of the Philadelphia and Alexandria news papers, and in one of the Baltimore, Frederick Town and Easton papers, and the Maryland Gazette.

By order,

NINIAN PINKNEY.

By the House of Delegates. December 27, 1796.

1. RESOLVED, That the Treasurer of the Western Shore be, and he is hereby authorised to pay off and discharge the principal and interest due on all certificates heretofore issued by the State of Maryland, other than those distinguished as fraudulent ones—Provided the same are brought into the Treasury for payment on or before the first day of July, one thousand seven hundred and ninety seven.

2. Resolved, That all holders of certificates heretofore issued and funded by the State of Maryland, bring the same to the Treasury of the Western Shore for payment of principal and interest, on or before the first day of July next, and that no interest on any certificates heretofore issued which shall accrue after the said first day of July, one thousand seven hundred and ninety seven, shall be paid thereafter, nor the principal turn until after the end of the next session of Assembly.

3. Resolved, That such part of the five months pay due to the officers and soldiers of the Maryland line, and due for services on board the barges, as shall not be demanded of the Treasurer of the Western Shore, on or before the first day of July, one thousand seven hundred and ninety seven be not paid to any person or persons demanding any part of the same until after the end of the next session of Assembly.

4. Resolved, That the Treasurer of the Western Shore be and he is hereby authorised to pay off and discharge the amount of principal and interest of such bills of credit of the emission under the act of June session, one thousand seven hundred and eighty, as may be produced and brought into the Treasury, on or before the first day of July next.

5. Resolved, That if any of the holders of bills of credit emitted in virtue of the act of June session, one thousand seven hundred and eighty, do not bring the same into the Treasury of the Western Shore for payment, on or before the first day of July, one thousand seven hundred and ninety seven, that all interest from that time cease thereon, and the principal not be paid until after the end of the next session of Assembly.

6. Resolved, That the above resolutions be published for eight weeks successively, in one of the Philadelphia and Alexandria news papers, and in one of the Baltimore, Frederick Town and Easton papers, & the Maryland Gazette, that the creditors of the State may be notified that funds are prepared for the discharge of their claims.

By order,

Wm. HARWOOD, Clerk.

By the Senate, Dec. 27th, 1796.

Read the first time, and ordered to lie on the table.

By order,

A. VANHORN, Clerk.

By the Senate, Dec. 29th, 1796.

Read the second time and assented to.

By order,

d8w

A. VANHORN, Clerk.

Now discharging at Penrose's

wharf, the next below Almond street, from the ship *Arethusa*, a quantity of Porter and Wine BOTTLES, for sale at the reduced prices of 4s. to 5s. per dozen, and on a liberal credit, according to the quantity purchased. For further particulars, apply to WILLIAM & SAMUEL KEITH.

No. 279, South Front street.

Also, for sale, Fifty Ton of COALS.

Fresh Garden, Grass and Flower

s Ame

F R

DELPHIA:—Printed by

d8w

By order,
A VANHORN, Clerk

Now discharging at Penrose's
wharf, the next below Almond street, from the
ship *Arethusa*, a quantity of Porter and Wine BOT-
TLERS, for sale at the reduced prices of 4s. to 5s.
per dozen, and on a liberal credit, according to
the quantity purchased. For further particulars,
apply to **WILLIAM & SAMUEL KEITH.**
No. 279, South Front street.
Also, for sale, Fifty Ton of COALS.

**Fresh Garden, Grass and Flower
Seeds, Roots, &c. &c.**

This Day Landing from the ship *Eagle*, Captain
Foldick, from London, and for sale by
GOLDTHWAIT & MOORE,
Corner of Walnut and Second streets, a most capi-
tal and extensive assortment of

Garden, Grass and Flower Seeds, Roots, &c.

Among which are			
Five kinds	Asparagus	Three kinds	Cresses
Four	Herecole	Twelve	Onions
Twenty five	Beans	Thirteen	Radish
Six	Beets	Fifteen	Turnip
Eleven	Brocoli	Six	Peas
Twenty six	Cabbage	Four	Savoy
Six	Carrot	Twenty three	Parfnip
Three	Cauliflowers	Twenty one	Melon
Five	Celery		Lettuce
Ten	Cucumber		

Common and lemon Thyme
Curled leaf and sprigged Parsley
Pot Marygold Pot Marjorum
Balm Thyme Mangel Wurtzel
Leek Kail Shallots
Rape Seed Rys Grass Saint Poin Lucerne
Red and white Clover Timothy, &c. &c.

FLOWER SEEDS & ROOTS.

Being the most extensive assortment ever impor-
ted in this city. The above are from a capital
Seedman in London, and are warranted fresh and
good. Printed catalogues may be had by apply-
ing as above. Dec 26

THE PARTNERSHIP BETWEEN

Israel Whelen and Joseph J. Miller,
TRADING under the firm of Whelen and Mil-
ler, was dissolved, by articles of agreement, on
the 15th day of February last; but the said Joseph
had a right, by the said articles, to use the name of
the firm for a certain time, which has now expired,
and of which this public notice is given.

All persons indebted to the said co-partnership
will please to make payment to Joseph J. Miller,
to enable him to adjust and discharge the debts due
from the company.

**ISRAEL WHELEN,
JOSEPH J. MILLER.**

Philadelphia, December 20, 1796

THIRTY HOGSHEADS

4th proof Jamaica Spirits,

20 hds. St. Croix Rum

40h hds. Sugars

A quantity roll Brimstone.—For sale by

JOHN STEINMETZ, junr.

Jan. 10 20sp

No. 69, north Water street.

House and Smith's C O A L,

From England, now landing and for sale by

Dec 30

ISAAC PHIPPS,

Order on Almond Street wharf.

...tion of a h
... where h
To obviate the
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... they
... open air
... a house
... of an
... this has
... part
... During



to avoid sitting near a chimney, or the
 walls of a house, ^{also} ~~and~~ ~~broken~~ standing
 near ~~the~~ an open door or window. A
 bed should be removed in the night, ^{During a} ~~to~~
^{thunder storm to}
 nearly the centre of a room. ~~During the~~
 n







Our Dress Cloathing

The first use of dress was to prevent a sense of shame to which the loss of minimal innocence ~~and as a means~~ exposed the parents of the human race. It serves the further purpose of defending the human body from those degrees of ^{heat} cold and ^{moisture} which excite pain and become the cause of many diseases.

see lectures on path. 12th 6.

~~The essentials with which is employed for cloathing in the United States are woolen - linen - cotton silk & cotton paper.~~

This part of our subject divides itself into the materials, and the form of Cloathing. ^{the} for different sexes, ~~and~~ and afterwards into those kinds which are proper for ^{the} different seasons, ~~for the different~~ ^{for the different} sexes, ages, & seasons of the year.

The materials of which Clothing is
composed are wool, ^{silk-fur-leather, galls} ~~lin cotton and linen~~
^{of which ~~some~~ are obtained from animal}
~~the first two~~ and cotton and flax which are
substances, ~~the two last are~~ obtained
from vegetables. The former have dis-
=redly been considered as affording the
most healthy materials for Clothing.
of They ^{always} ~~are apt to~~ generate dis-
=ease by retaining the perspiration. This
is one reason why the Chinese who wear
silk garments ~~till they~~ are apt of subject
to the fevers which arise from human
excrements under many of the other
circumstances which produce them. ^{Some} They
retain the heat of the body longer than
the heat of Clothing from vegetables, ~~be~~
when wet with ~~precipitation~~ ^{they} rain ^{not} are apt
disposed to check perspiration. It was
announced during the American revolutionary
War

V the Soldiers of ancient Rome. Their
healthiness from this and ~~some~~^a
~~other~~ causes formerly mentioned
was such, that ~~not a single treatise~~
~~has descended to us upon the diseases~~
~~of the Roman Soldiers, and probably~~
because no ^{specific} Diseases ^{existed} ~~prevailed~~
^{among} ~~to~~ them. This is inferred, from not
a single ~~dis~~ treatise upon camp
diseases ~~is to be met with among~~
all the numerous medical books
and tracts which have descended to us
from that nation.

that those officers and soldiers who wore flannel ~~shirts~~ next to their skins were rarely affected by Colds or fevers. Woolen Garments alone were worn by Cotton partakes of some of the Qualities of the Clothing which is obtained from Animals.

Linnen obtained from flax is the ~~most~~ less disposed to produce disease of any the Articles of Clothing that have been mentioned. The perspiration when ^{impaired} ~~raised~~ by it ~~too~~ for some times, acquires a morbid quality. When rain when ^{impaired} ~~raised~~ and to stagnate upon it has been known to change its Qualities so as to render it unhealthy. Those soldiers who ~~were~~ ^{wore a} ~~stoutly~~ coarse over garment called a Rifle-shirt made of linnen, were the first Victims of the Camp fever which

✓ Damp ~~bed~~ linen next to the body,
and Damp Sheets should be carefully
avoided. I know that this advice has
been opposed by Dr Franklin upon the
authority of Father Traylor who ^{includes} ~~error~~
~~disseminates~~ the opinion of persons taking
cold from ^{the above causes} ~~wet sheets - bodily linen~~
and ^{from} newly washed floors, among in
the list of vulgar errors. The ^{harmful} ~~experience~~
of ~~thousands~~ ^{thousands} however ~~is~~ ^{is} ~~in~~ ⁱⁿ the
practice may be, to Soldiers, Sailors
and Labourers, ^{there are few} ~~it is the experience of~~
^{in the United States} physicians who have not seen
Rheumatism, Colds, and Pleurisies
contracted by it.

Destroyed several thousand of the Ameri-
-can Army in the year 1776. I mentioned
formerly that it sometimes produced
Disease when the confined for a week or
two in a cloaths bag or basket from
the ~~small~~ perspiration it retained
when taken off the body. ~~to~~ This unhealth-
-ness was perhaps improved upon it to compel
- the quality in linen may be completely
us to be cleanly, for it ^{is}
obviated by changing it often, and exposing
it when ~~there~~ foul, to the action of the
Air. ~~This is~~

✓ The form of Cloathing should be
such as never to bind any part of the
body. the Cloaths of the ancient Romans
were loose and flowing. many diseases
have arisen from tight ~~such~~ ~~the~~ liga-
-tures about the neck and breast & waist,
~~and~~ and from tight shoes and boots.

[The text on this page is extremely faint and illegible, appearing to be a handwritten letter or document.]

The four seasons all require different kind of Clothing. I shall begin by mentioning ^{that} which is proper in the winter, or in cold weather.

Wool, fur and silk are thought to be preferred to protect the body from the cold of winter, and the quantity of them should be proportioned to the degree of cold, and the sensibility of particular parts. I am aware that I oppose here a popular opinion that the whole body might be made to acquire by time & habit the same insensibility to ~~the~~ cold, that we observe to take place in the face. But I cannot admit this opinion. The nerves of the face possess a specific insensibility to cold which is seldom acquired by other parts of the body, and should we render the ~~nerves of~~ them all equally



insensible with the fall to the action
of cold in the course of a winter, they
would lose this insensibility in the
ensuing summer, and thus the work
of hardening the body would be doing &
undoing ^{every year,} ~~this~~ ^{of} life and never done.
But for what purpose do we wish to
create this general insensibility in the
body to cold? ^{Do we} ~~we~~ ^{do not} wish to create
our sons ^{exclusively} for the trials of ~~hunting~~ war,
and ~~we~~ to watch for the ^{animals} ~~game~~ upon which
they are to subsist, for two or three
days behind a bank of snow? ^{or do} ~~we~~
wish to form our women
for the ~~rough~~ hardships & slavery of
Indian lives? - ~~The design of this work~~
~~is to~~ Admitting that we could succeed in
this the experiment of inducing the

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Indian Constitution upon ^{our} ~~vicious~~
 citizens, what should we gain by it?
 The design of this work
~~look at an Indian~~ is to produce
 in its readers the greatest degree of health
 and longevity, but look at an Indian
 of fifty years of age, and you will see
 in his face the same marks of age which
 you will observe in a ^{man who} ~~man~~ ^{civilized} has
 passed seventy years in a ^{state} ~~state~~ of civili-
 zed society. Read the accounts that are given
~~of the~~ by travellers of the violence of the
 Diseases ^{of the Indians} ~~and~~ ^{occasional} mortality of whole
 tribes from them, of the frequent rare
 instances of ~~an~~ old age that occur among
 them, compared with ~~the~~ ^{under equal}
 circumstances with ^{the great} ~~those~~ ^{number} which occur
 among civilized nations.

I moved therefore to point out the means
of perpetrating to man the blessings
of that state in ~~which he was created~~
~~and in which the first families upon~~
the earth existed, and in which there
is ~~more~~ not only more health & longer
life, ~~that more enjoyment than in~~
~~savage states and degraded & miserable~~
~~that departure from its original condition~~
which has enormously been supposed
to have been the original ^{state} ~~state~~ of man.

The following rules should be ob-
served in protecting the body from cold.

1 Flannels should be worn next to
the skin. ~~The shirts of the Roman soldiers~~
~~were made exclusively of the wool. &c.~~
I shall hereafter mention the only
state of the body which requires an
exception to this rule. Where flannel
is forbidden, or disagreeable to the skin

The Advice which Dr Boucher gave to a Gentleman to whom he recommended warm clothing, should be followed. It ~~consisted in a few words~~ was "Remember two Shirts, are warmer than two great Coats." The Climate in which Dr Boucher lived gave him the best Opportunities of knowing the efficacy of this prescription.

2 The head should be protected in cold weather by a woollen night Cap. To this rule ^{Persons} ~~there is sometimes an exception. in~~ ~~who are subject to inflammatory affections of the brain are defended~~ It is no objection to this rule than some persons have been cured of head aches, and other diseases of the brain by exposing their heads during the night to the action of cold air. ~~Persons~~

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Object of this work is to suggest the means of preserving health & life, and not to cure diseases.

3 The feet should be protected with woolen stockings - corded soaked shoes, or large and loose galowshes worn over the shoes or boots. These will be more necessary when the weather is wet as well as cold. The following application to the shoes and boots ~~known~~ first used by the fishermen in the reign of Queen Elizabeth of England has been found effectually to prevent their imbibing moisture. Dissolve four parts Bees wax six ^{parts} mutton tallow eight parts, and linseed oil sixteen parts melted together. Too much pains cannot be taken to keep the feet warm in cold & even cool weather, for by them

and ~~most~~ ^{chronic} the mouth nearly all diseases
enter the human body.

4 Feather beds should be ^{used} ~~preferred to any~~
~~beds~~ in ^{and they the wider - warmer de -} cold weather. And a covering of
wool of down should be preferred to a
great number of bed clothes. ^A ~~The weight~~
~~of a down covering~~ ~~that~~ ^{that} weighs but
three pounds will confine more heat
than three blankets. It has moreover
the additional advantage of not oppressing
the breast by which means the lungs
in every act of inspiration fill the whole
chest. ~~for~~ a blanket placed between the
lower sheet and the bed ~~adds~~ adds consi-
derably to its warmth. In extreme cold
weather, it will be found more comfo-
rtable to sleep between blankets than sheets.
The warming ~~part~~ ~~should be~~ is seldom
unhappy to persons in good health. as sleep

V Once engaged in extensive Country
practice informed me that he had
found the latter, taken just before
he mounted his horse to ride in
the cold to protect him from its
painful effects much more than
ardent spirits.

is sometimes prevented in very cold weather by cold feet, they should be kept warm during the night by being placed in contact with a jug or bottles filled with warm water. Under the bed clothes they will retain their heat until morning. —

In going abroad in cold weather some further means of ^{defending} ~~protecting~~ the body from being injured by it have been found necessary. These are

1. eating a hearty meal or drinking a pint of strong Coffee. A physician who was
2. washing the feet in tepid or cool water, and afterwards adding, to the coverings formerly mentioned, a large woollen sock or stockings. ~~They~~ In riding in a carriage, hay or straw may be substituted for them. In riding upon horseback, the feet will retain their heat a great while by resting them upon stirrups covered

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with tal. or a piece of coarse woollen
Cloath.

3 The hands should be covered with
gloves or mittens made of woollen
or fur. The latter by admitting the
Contact and motions of the fingers, &
retain the most heat.

4 the ears are more apt to be affected
by cold than any other part of the head.
They should be protected by means of a

hand kerchief or a fur cap.

5 the face should be defended by a mask.

6 The trunk of the body and the limbs
should be defended by means of thick
woollen cloaths. Mr. Auerb mentions in

speaking of the means employed in Sweden
to guard the body from cold mentions an
instance of a German who left ten articles
of dress ~~at~~ ⁱⁿ the entry of a house ^{to} which
Stockholm to which he went to pass

V 8 Dr Boerhaave mentions a liquor called
Brunswick which is ^{used} ~~used~~ by the Drunken
who bring cattle from the north of Europe to
Holland in the middle of winter ^{in order} to fortify themselves
against the cold. They declared to the Doctor &

~~that~~ Chewing tobacco by persons
I who have not been in the habit of
using it. I have heard of a life being
saved by this remedy. It not only
counteracted the cold, but induced
a general heat and perspiration
over the whole body.

11. ~~Wetting~~ Wetting the body with salt water has
been found to open the ~~contents~~ of the
air the ^{painful} effects of cold air, and cold

fresh water upon the body.
12 Pouring ~~preserves~~ ^{fresh} spirits into the shoes or boots
that they found no liquor equal to it
in preserving the natural heat of their
bodies. It is nothing but Beer ^{strong} in its
unfermented state reduced by heat to the
consistence of a thin Syrup. —

9. ~~A physician who~~ A physician ^{who}
was once engaged in extensive ~~country~~ ^{country}
13 The Indians Tobacco the first

are wearing ~~on~~ ⁱⁿ a winter. Six of them were
two pairs of gloves - two pairs of boots, and

two great Coats. ^{upon the body.} Sings upon the effects of cold
& Conversation, and singing upon the effects of cold.

10 ~~It is a good practice in travelling to~~
avoid going near to fires in case the
cold be very intense. ^{when the hands or}
~~body be limbs or body have suffered~~
~~from the cold. If the person, they~~
should be washed in cold water before they
are exposed to the fire. -

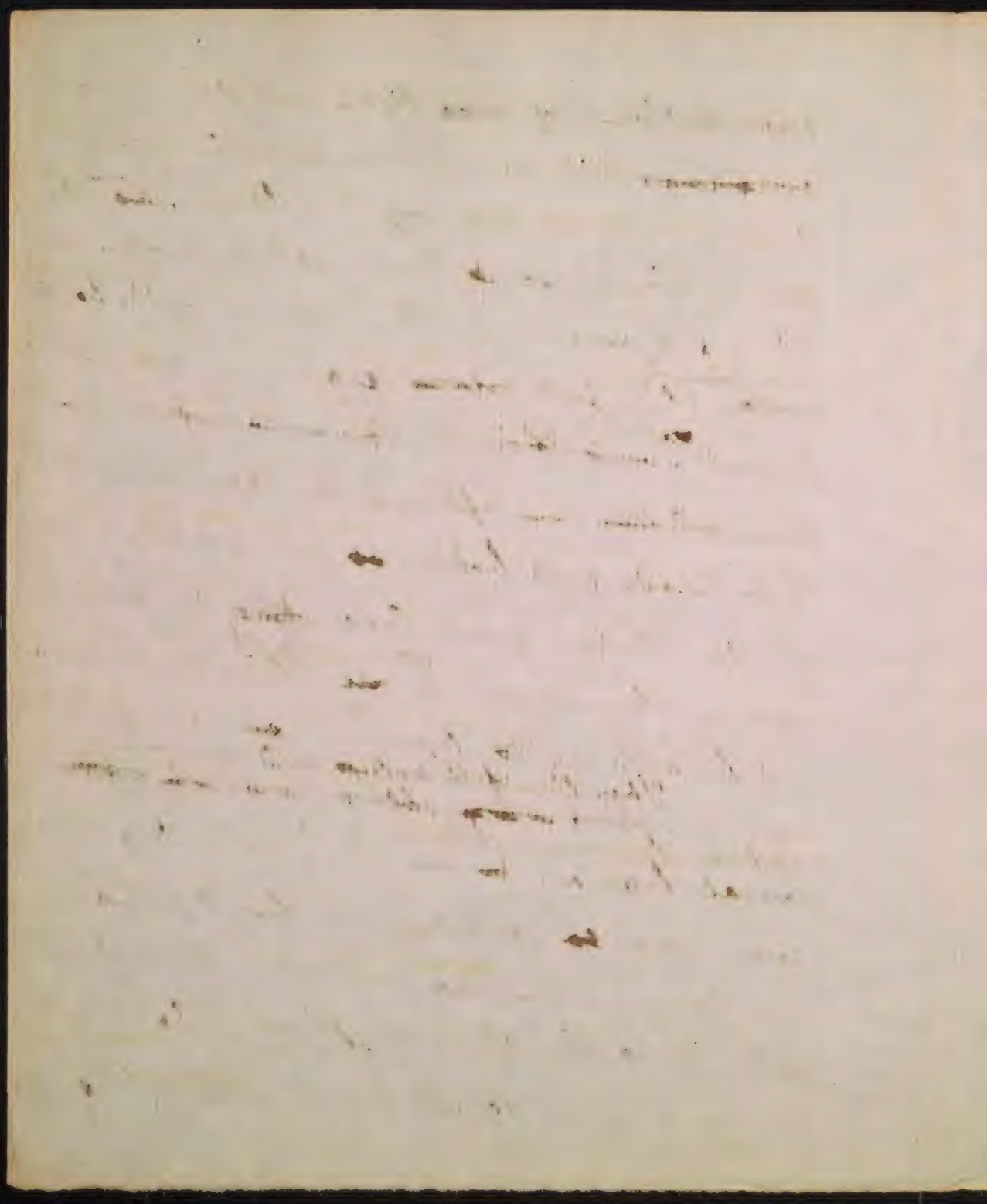
11
12 Persons are sometimes exposed in tra-
-velling by land and water to intense degrees
of cold in which they are incapable of
using exercise to ^{or any of the means that have been mentioned} ~~open~~ it. ^{a brother}
~~of the late Governor Van Dyke~~ ^{informed me}
~~that he was obliged to cross from below~~
of the Chesapeake on a cold evening about
forty years ago. ^{one} a little beyond the
middle of the river, the ^{ice} ~~water~~ ^{froze} so
rapidly, that the boat could not be
moved. The ferry man gave up all

practice informed me that he had
found a pint of strong Coffee taken
first before he mounted his horse to
ride in the Cold, to protect him from
its painful effects much more
than Ardeal Spirits.

Painful sensations of Cold upon their
feet by plunging them in Cold water.
They sometimes break the ice for this
purpose. The Cold water ^{aided by the} ~~carries away~~
~~then~~ subsequent exercise of walking
~~again~~ produces reaction in the feet &
thus restores their warmth.

14 The least tendency or disposition
to Sleep should be resisted by running,
or jumping when it is practicable.
This Sleep is the beginning of death.

expectations of ~~our~~ life. m^r Van Dyke
~~convinced~~ bid him not despair, and
 directed him to take off his shoes, ^{while he at} ~~at the~~
 same time ~~so~~ took off his boots. They
 then sat down in the bottom of the boat
 and placed
 with their feet ~~placed~~ against each others
 breasts. ~~and their heads and bodies so~~
~~completely covered~~ afterwards they covered
 their heads and bodies ~~so~~ completely with
 m^r Van Dyke's great coat that by which
 means they confined ^{so much of} all their perspiration
 and breath as to become ~~so~~ comfortably
 warm. ^{They then fell asleep and remained in}
~~that state for several hours.~~ ~~that they slept soundly for~~
^{several hours.} In the morning the
 river was ~~so~~ frozen so hard, that
 the ferryman led m^r Van Dyke's horse
 upon it to the opposite shore. Several
 persons were saved from perishing with



Cold by the same practice in ~~the winter~~^{new york}
of 1806 who were driven from ~~the houses~~
into the open sea in the winter of 1806.

In the Spring, the clothing should ^{be} gradually
loosed with great care. no part of the
interior covering of the body should be
laid aside, until the weather becomes
uniformly warm. ~~many fatal~~ Pleuritis
have often been brought on by taking off
a flannel shirt on a casual hot day in
the month of April. The ^{Cloak,} Great Coat or
Sustout, or Spencer may be dispensed with
at midday but should be put on in
the mornings and evenings. The form
of the Chinese ^{Dresses} ~~clothing~~ favors the ^{easy}
diminution or increase of the clothing.
They wear ^{in cold weather} ~~the~~ ^{Coats} ~~the~~ ^{outer}
much more than ours. ~~This~~ ^{one} ~~Coat~~
^{the} Outer ~~Coat~~ is shorter & lighter

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than ~~this~~ the second, and the second
flatter and lighter than third by which
means they change their dress so as
imit the changes in the weather without
a great diminution of their cloaking as
arises from laying aside a great coat,
or without the trouble that attends
taking off, and putting on the ^{interior} ~~interior~~
and small coverings of the body. . .

~~In wet weather whether it occurs in~~
~~the town~~ In summer it is common to
wear clothes made wholly of ^{silk} Cotton, ^{and} silk
linen. But experience has taught that
skin ~~clothes~~ a wools are to be preferred to
them, especially for outer garments. Even
the sweets they induce tend to prevent the
By ~~to~~ persons to whom flannel is disagreeable.
Diseases of ^{summer}. Great care should be
- worn next to the skin, cotton may be used in its stead.

V It ~~is~~ is practice Ulloa tells us among
the Spaniards in the Island of Cuba when
they are partially wetted by a shower of rain,
to plunge themselves into a stream of water so
as to wet their bodies all over to the skin. The
System is thus obliged to react, and the bad
~~the brown mucus~~
effects of the partially wetting prevented. Where
this is not done wet clothes should be
never be ~~per~~ suffered to dry upon the
body. The sooner they are changed for
dry clothing, the better. Where this can
not be done, the reaction of the System
should be excited by ~~strong~~ ^{exercise} warm tea, or
Coffee - fermented liquors, ~~the~~ ^{or} by a small
quantity of Ardent Spirits. This is one of the
for General Wolfe a who was a philosopher as
was a soldier. A warrior never allowed his soldiers
to taste Ardent Spirits except ^{when they were} ~~upon the battle~~
exposed to rain, in which case he found
them safe and useful. It is one of the
few occasions that occur in the which
they are safe and useful.

taken to ~~good~~ increase ~~or~~ change the
Clothing in the mornings and evenings
in the middle states,
After the 20th of August, and at all other
times when the cooling of the morning
& night ^{air} greatly exceeds its temperature in
the middle of the day. It will be im-
-prudent in most parts of the United States
to go abroad for more ^{in the summer months} a few days without
a change of woollen cloaths, or a great
Coat. The Spanish proverb relative to
this rule is a wise one. "If it ^{the sun} ~~is~~ ^{is} shining, take your great Coat with
you, but if it rains, do as you please."

✓ ~~This body suffers least in~~ to the rays of the sun
^{exposing the body}
~~In going abroad in hot weather~~
the head should be protected by means of
Umbrella & a high crowned hat and light
hats. ~~They~~ The latter should be made

V whole bodies ~~by means of~~ ^{with} large and
broad great Coats or Cloaks when they
expose themselves to the rays of the
sun. ~~by which means they suffer~~ ^{They act in the same way}
~~only from an accumulation of~~
in keeping the heat of the sun as the
Egyptian turban. -

of straw or pasteboard. They are coolest when white, but a dark color is best calculated to conceal the dust which is apt to ~~on~~ ~~attach~~ attach itself to them in summer, and it does not add much to their heat.

The Egyptians ~~from~~ protect their heads from the intense heat of their sun by a thick covering called a turban. It excludes by its numerous folds the external heat which is ^{often at 120 & seldom less than} ~~often at 108 of~~ Fahrenheit's thermometer, and exposes the head to its own heat only which is ^{many} ~~the~~ degrees lower than that of the external air. The Spaniards & Portuguese ^{cover} ~~protect~~ their

It has been ^{said} ~~supposed~~ that the head ~~is~~ by being uncovered in the hot sun

[Faint, illegible handwriting on aged paper]

requires ~~not~~ an insensibility to heat
which ~~renders its life~~ defends it from many
of the diseases of the brain. It is certain
the skulls become thicker & more dense
by this practice. This was long ago ascer-
-tained in walking over a ^{of battle} field that
was covered with the bones of a number
of Persians and Egyptian soldiers. The
skulls of the latter ~~were~~ ^{who} were
covered their heads, were known by their
greater thickness than the former. ~~who~~ ^{even}
~~But the design of these pages~~ who stoop
at their labor in the fur as favors
Gardeners in weeding, & some other classes
of ~~let~~ people find no inconvenience from
the want of a covering upon their heads.
But the design of this work is not to

to be soldiers nor to laborers
Qualify men exclusively for ~~hard labor~~
at labor in the hot sun. It is intended to meet
the Citizens of the United States as they
are, and as they live in a climate exposed to
rain as well as to heat in summer, and
as but few of them are soldiers, and still
fewer laborers in the open air at occupations
which require stopping they should protect
their heads whenever they expose themselves
to the rays of the sun in hot weather.
Standing still in the sun should be
carefully avoided.

In the use of drinks to mitigate the heat of the body, the reader will please to advert to the rules that were delivered in p:

The body when much heated, or

V This Caution I know will be objected to
by persons who are in the practice of sleeping
with their windows open in cool and
even cold weather. But let them remember
that there is less danger in doing so, at
those times than in the summer
months. The greater the heat, the
more the system suffers by a small
diminution of it. This is well known
& from sad experience in Egypt, and in
the East and West Indies, where more
diseases are induced by the coolness of
the night air, than in all the northern
Countries of Europe, and in the United
States. -

covered with sweat should never be exposed in a sitting posture, or at rest in any way to a current of air.

A mattress should be preferred to a feather bed in summer. The larger it is made, the more easily it admits of the body changing its ^{posture} ~~position~~ from a warm to a cool part of it.

It will be unsafe ~~in the~~ in the variable weather of the middle states to sleep with

the windows open in the ^{summer} ~~winter~~ months. A sudden change in the temperature of the night air in the night

often has induced Colic, Colerics, fevers, and death in Philadelphia.

It is most ~~dangerous~~ dangerous after the air becomes charged with those exhalations which produce autumnal diarrhoeas. —

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The Cloathing should ^{be} gradually in-
 -creased in the first Autumnal month,
 and it should be nearly the same as
 in winter, in October and November
 in the middle and Eastern States. Cold
 is the greatest ^{physical} enemy to man. It
 destroys millions by its sensible
 qualities alone, but it aids fevers
 from putrid exhalations in the business
 of destruction by burning in the
 Autumn, this existing Cause. Of the
 many thousand ~~Citizens~~ inhabitants of
 Philadelphia who have perished with the
 yellow fever since the year 1793, ~~but~~ ^{the}
~~were~~ a light to their waistcoat, - a
 ride in the early morning or evening



Air, and the want of a ^{sufficient} ~~blanket~~ ^{have} ~~bed clothes at~~ ^{night}, awakened the sleeping disease in most of them.

Fires should be made in the corner room sitting room every morning ^{during the} ~~early~~ ^{the} morning in September, and ^{whole} day as soon as the Glass descends to 62° of Fahrenheit. ~~In rainy weather~~ ^{could} they not only warm the body, but they carry up the Chimney all the exhalations which insinuate themselves into the house in the Autumnal months.

Fires should likewise be made in Summer whenever the weather becomes unseasonably cool, and especially if it be accompanied with rain.

Let it not be said that ^{health} life is not worth having upon the terms of

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vigilance and care that have been recom-
-mended. It is ~~practiced~~ by considering
its immense value it is purchased by

them at a small price ^{occupation}
A difference in age and sex require some
some variation in the ~~clothing~~ ~~and~~
~~be made~~ as well as a difference in the
seasons.

Children ~~suffer~~ ^{suffer} more from heat &
Children ~~suffer~~ ^{suffer} ~~stronger~~ ^{resisting} power
to ~~hold them~~ ^{keep them} ~~safe~~ from cold than adults.

~~They should therefore be clad in thin~~
This clothing should be light in sum-

-mer, and moderately warm in winter.

Thin flannel next to their skins is
calculated to defend them from the
Stomach and bowel disease to which
they are so generally subject in the
United States.

extenuated state of the thread of
V The ~~delicacy~~ ^{in old people} which ~~appears~~ ^{renders it} very liable to be broken
by degrees of heat and cold which are
 seldom met with in middle life. The
 former should be obviated by rest,
 and artificial currents of air, and the
 latter by additional cloathing more
 especially upon their heads and feet.
 As the death from cold makes its first
 attack upon stinfect in the night, they
 should be wrapped up in blanket, or
 bottles filled with ~~hot~~ warm water...
 should be applied to them when they go to bed.
 To

The young and ~~middle~~ aged will
profit by a strict attention to the
~~system~~ ~~for~~ ~~regulation~~ directions for regu-
-lating their cloathing that have been
delivered, by the state and changes of the
weather. Let the former remember
~~that~~ "if they wish to be young when
they are old, (to use the words of a Spanish
proverb) let them be old [that is wise]
when they are young". Health is ⁱⁿ ~~one~~
respect like money, the more frugally
it is saved in youth, the greater capital
it will produce in Old Age. —

V The ~~decreasing~~ decay of heat in ~~old~~
people, and their inability to derive it
by labor or exercise ~~under~~ ^{more} ~~any~~ ~~business~~
~~of~~ Cloathing necessary for them ^{than} ~~in~~ ~~old~~
for persons in early and middle life.

Direct ^{eye of Spectators from the}
~~conceal~~ the ^{marks of time upon}
the body and particularly upon the
face, ~~the~~ of old people their clothing
should not only be warmer, but
more elegant and splendid than in
early and middle life.

Indians men become less sensible to
 heat, and more sensible to Cold than
 other people. They often suffer from ^{the} ~~the~~
~~glaciers~~ decay of their fires in the evening,
 and by going to bed ~~in~~ chilly, or with
 cold feet. They should avoid both by
 warm cloathing, and comfortable fires
 in their places of study, ~~and by warming~~
~~but warm water should be applied to~~
~~their feet, if they if~~ when necessary just
 before they go to bed. -

Persons who ~~follow~~ follow sedantary
 mechanical employments require artificial
^{light cloathing of} ~~degrees of cooling the~~ Air in summer, and
~~strong rooms in winter~~ ^{they} and warm
 cloathing in winter.

Mechanics who work in the



open, also labourers require light Clothing
in Summer. Where men work under
cover, they feel the least heat least when
they take off their shirts, and ~~expose~~^{rapid}
their naked bodies to the air. The ~~exposure~~^{rapid}
evaporation of this sweat is ~~more rapid~~^{by this means}
counteracts the heat of the air. Where
~~the whole body~~ and all the limbs, and the
whole body are ~~more~~ exercised in winter,
less Clothing is necessary than where
that state of the system does not take
place. ~~After labor~~ During the suspension
of labor, the Clothing should be in-
creased, or refuge should be taken in a
warm room. —

My dear Mother
I received your letter of the 10th inst.
and was glad to hear from you.
I am well and hope this finds you
the same. I have not much news
to write at present. I am still
in the same place and doing
the same work. I hope to hear
from you soon. I am
Yours affectionately
John

~~their heads and their feet should be~~
~~defended with great care from the cold.~~

Women in early and middle life ~~are~~
~~of~~ bear the extremes of heat & cold
 with more patience than men, but
 they do not suffer less from them. It is
 to be lamented that in the climate of
 the United States, they are governed by the
 fashions in dress of which prevail in
 the more moderate climates of Paris &
 London. hence ~~these heavy cushions upon~~
~~heads in summer~~ and their ~~now~~ bare
 arms and thin body clothing in winter.
 This ~~rebellious~~ want of conformity to
 nature, reason, delicacy and the ^{temperature} ~~climate~~
 extremes of heat and cold in the United
 States, has greatly increased the number
 of ~~stranded~~ diseases and particularly of

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the preliminary Consumption among
all ranks of our women. The pro-
-portion of female patients affected with
that disease ^{to that of males} in the practice of the Author
during the year 1808 was to that of the
male as ^{late} ~~from this~~ ^{from the} ~~late~~
Additions that have been made to ~~the~~ ^{the} ~~business~~
~~of business of physicians~~ ^{of business} of females to the list
of female patients from ^{one of} the causes
that have been mentioned, it has been
said very properly that "the nakedness
of the women is the Clothing of the
physicians of the United States."

~~Whether in spite of fashion~~
From a belief that my fair Coun-
-trymen will sooner or later recover
from this present delirium respecting
their Dress, I shall advise them to

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wear flannel drawers as well as
waistcoats next to their skin in cold
weather, and to protect their feet with
leather, ~~shoes~~ over their worsted, or
Silk shoes.





Of preventing diseases from bad Air.

The Air induces diseases ^{thru} its sensible qualities such as heat, cold, moisture and dryness, density and rarity, ~~and~~ ^{thru} by its insensible qualities, that is by certain ^{foreign} matters ~~being~~ being diffused or mixed with it that do not belong to it in its natural state.

I have already pointed out the means of defending the body from the enervating effects of all the sensible qualities the Air except its density and rarity, and these are so few in number, and so feeble in their operation ^{they} act ~~weakly~~, that it will be unnecessary to mention them.

If the ~~foreign matters which mix~~ ^{with,} ~~themselves in the Air are numerous;~~ ^{or} I shall briefly ~~enumerate these~~ ^{simple}



As the air appears to be it is composed
when in its healthy state of ~~three parts~~
~~which the Chemists call azote - oxygen gas~~
~~and Carbonic acid gas~~ of the first
72 of the parts of what the Chemists
call Azote, 27 parts of Oxygen gas, and
one of Carbonic acid gas. It is probable
Other matters enter into its composition,
but Chemical tests have as yet discovered
~~not~~ no more than those that have
been mentioned. Many matters are
mixed with the ~~smaller~~ air or are diffused
through it which are foreign to its
nature, and which are a source of
~~many~~ diseases. These are exhalations
from putrefying vegetable & animal
substances. from living animal

The first of these is the fact that the
 number of cases of the disease is
 increasing. This is due to the fact that
 the disease is becoming more common
 in the population. The second fact is
 that the disease is becoming more
 severe. This is due to the fact that
 the disease is becoming more common
 in the population. The third fact is
 that the disease is becoming more
 difficult to treat. This is due to the fact
 that the disease is becoming more common
 in the population. The fourth fact is
 that the disease is becoming more
 difficult to prevent. This is due to the fact
 that the disease is becoming more common
 in the population. The fifth fact is
 that the disease is becoming more
 difficult to control. This is due to the fact
 that the disease is becoming more common
 in the population. The sixth fact is
 that the disease is becoming more
 difficult to cure. This is due to the fact
 that the disease is becoming more common
 in the population. The seventh fact is
 that the disease is becoming more
 difficult to manage. This is due to the fact
 that the disease is becoming more common
 in the population. The eighth fact is
 that the disease is becoming more
 difficult to monitor. This is due to the fact
 that the disease is becoming more common
 in the population. The ninth fact is
 that the disease is becoming more
 difficult to research. This is due to the fact
 that the disease is becoming more common
 in the population. The tenth fact is
 that the disease is becoming more
 difficult to understand. This is due to the fact
 that the disease is becoming more common
 in the population.

bodies in a confined, or unhealthy
 state, - from expired air, - from
 the Air discharged from calcareous
 substances and fermenting liquors called
 Carbonic acid gas - Inflammable Air
 called Hydrogen Gas, - exhalations from
 minerals and Springs - the Effluvia of
 certain manufactures, and the odors of
 certain spices and flowers.

The exhalations ^{or miasmata} from putrefying
^{called arising} vegetable and animal substances con-
 -stitute ~~the~~ ^a fruitful source of un-
 -diseases from ⁱⁿ the Air. In order to the
 production of these exhalations, heat
 moisture and fermentation must con-
 -cure. of course they exist only in

1841

Jan 1st

to the 1st of Feb

to the 1st of March

to the 1st of April

to the 1st of May

to the 1st of June

to the 1st of July

to the 1st of August

to the 1st of September

to the 1st of October

to the 1st of November

to the 1st of December

to the 1st of January

to the 1st of February

hot climates, and seasons. In the United States they produce their ^{particular diseases} ~~noxious~~ effects only in the summer and autumnal months. These ~~yellow fevers~~ are yellow fever, bilious intermittent, ^{intermittent} ~~intermittent~~, Colic, Cholera morbus, Dysentery, Diarrhoea, ~~inflammation~~, inflammation of the eyes, and head ach.

The means of defending the human body from these diseases is frequent and often so fatal into the United States divide them: - into two heads. I shall

The Vegetable matters which ~~have been found~~, ~~when in a state of putrefaction have been found~~ to produce ~~these~~ this formidable class of diseases,

are exhalations from marshes, Cabbage, potatoes, pepper, Indian meal, Onions, mint, aniseed and carawayseeds, Coffee, Chocolate shells, cotton, hemp, flax, straw, the canwaps of old ~~low~~ tents, old books and paper money,

the timber of an old house, green wood
 confined in a close cellar during the summer
 months, the green timber of a new ship
 the stagnating Air of the hold of a ship, Bilge
 water, water that has been confined in hog-
 -heads, at sea, stagnating rain water, the
 stagnating Air of ^{close} cellars, - the matters which
 usually stagnate in the gutters, Common
 sewers, sewers, docks and Alleys of cities &
 in bins of Kitchens, Air emitted by
 agitating foul and ~~the~~ stagnating water, a
 duck pond, a hogstye, weeds cut down &
 exposed to heat and moisture near a house.

The animal ~~which~~ matters which
~~when~~ in a state of putrefaction have been
 observed to produce the summer and
 autumnal diseases which have been
 enumerated are human bodies that



have been left unburied upon a field of
battle, salted beef & pork, ~~and~~ birds confined
in stores, and in the holds of ships, - a
whale thrown upon the sea shore, large
beds of Oysters, - the entrails of fish, and
privies.

~~The means~~ In suggesting the means
of ~~defeat~~ preventing the Diseases from the
exhalations or emissions from all
the sources which have been enumerated
I shall first mention the means of
grasping against its ~~most malignant~~
^{bilious, and malignant}
the Yellow fever which is the ~~most~~
~~malignant~~ form of our country, &
then take notice of such as are proper
in all the inferior and milder grades
of ^{our} ~~the~~ ~~Septicæmia and Antemural Diseases~~
~~and~~ ^{Septicæmia, and} ~~of our Antemural~~ diseases that
have been mentioned.

+ The directions ~~for presenting~~ which
follow are an abridged extract from
the 4th volume of the author's meti-
-cal inquiries and observations. They
have been read chiefly by medical
gentlemen. They are now put into a
shape which will render them intelligible
to all classes of readers. Some of the directions
have been introduced in the former part of
this work, but ^{the authors hopes} they will be more im-
-pressive from being repeated in a Coun-
-tion with facts ^{that are} related to them.

These naturally divide themselves again,⁺
- here introduce from p: 178 to 220 of the 4th
volume of critical inquiries & observations.



Health and life are sometimes endangered
by miasmata which are discharged
from living bodies when confined in
close rooms or apartments, ~~and~~ where
there is a want of chamberpots, and of a
sufficient quantity of wholesome provisions.
~~The fever which has obtained from~~
its being so often generated under the
~~above circumstances~~ in jails, hospitals,
and ships, it has obtained the name
of the jail, hospital & ship fever. It dif-
fers from all the forms of bilious fever
in appearing only ~~too~~ under the circum-
stances of confinement, filth, and scanty
or bad provisions that have been menti-
oned, ~~for~~ in being ever prevailing ~~everywhere~~
generally ~~throughout~~ beyond the places in

✓ In attacking persons of debilitated
habits chiefly, in not being attended
with remissions or intermissions,
nor with bilious discharges ^{or} in
rarely with inflammatory symptoms,
in being of a more protracted ~~and~~
or of longer duration,

which it is generated, in being contagious,
 when persons predisposed to it are ~~with~~
 exposed within ten feet ~~of the source~~
 to its exhalations, and in prevailing
~~on~~ chiefly in cool and cold weather.
 The means of preventing it ~~are~~ ^{consist} in
 avoiding all its causes. ~~by means~~
~~of large and well aired rooms, by~~
~~badly~~ ^{particularly the} ~~chamber and by more especially~~
~~by the foul linen and other articles~~
 of badly cloathing, which by confining
 the perspiration ^{for a long time} ~~renders it~~ putrid, acrid,
 and thus disposes it to produce fever.
 The cloathing ~~thereon worn~~ ^{when} ~~by them~~
 infected, retains its power of commu-
 nicating the disease for several months.



It should therefore be carefully washed,
or destroyed. Happily for the people
of the United States, the ample, or
comfortable accommodations of the
poor, their competency of draughting
and the wholesome food render fears
from human miasmata very
unreasonable in our country.

Aspired air called by the Chemists Azote,
nitrogen, ^{system} and sometimes phlogisticated Air
when confined, produces diseases & death. Dr.
Franklin informed me that the celebrated
& Dr. Hales the ingenious Author of the treatise
upon Vegetable Statics, had informed him
that three out of four persons had perished
with malignant fevers who seated themselves
near a hole in the Ceiling of the House of

Common in order to take notes of a private debate. The sickness ^{which} of children often contract in crowded schools is derived chiefly from the air of the school room being overcharged with expired air. It is rendered more unhealthy when the burnt air of lamps and candles ~~which~~ is of the same nature, is added to it. Disease and death from ^{both} this air is to be prevented by avoiding crowded rooms, or by frequently ~~changing~~ ^{by having them} fresh ~~as~~ ^{as} are well ventilated. Even this air being lighter than common air, the free passage for its escape out of a room should be in the upper part of it.

Air which has been consumed by the burning of wood and coal, ~~is~~ ^{is} fatal to ~~human~~ ^{animal} life.

✓ The Air impregnated with the
fumes of lead, is and which is so
injurious to all those Artificers that
work in it has been rendered in-
offensive by a Diet of fat meat.

Oil of any kind taken plentifully
~~by way of~~ ^{as} Aliment is calculated to
produce the same salutary effects.

~~It is~~ ~~the~~ sitting or sleeping in a room
in which this air is confined should
be carefully avoided. Apoplexy, and
death have often been induced by it.

The air from burning Charcoal, Calca-
-rious earths, Alkalies, & fermenting bodies,
& which is known by the names of Calca-
-ric acid gas - fixed Air, & sulphuretted Air
often produces redness, sickness, head ach
apoplexy and death. It is sometimes found
in a simple state by nature in wells,
Caves, and upon the surface of the earth.
It may be known by suddenly extin-
-guishing a Candle. This ~~is~~ test of
its presence ^{should} ~~is sufficient to~~ deter from
exposing ourselves to it.

✓ The other sources of impure Air
that have been mentioned are so

✓ it will not be necessary for us to live
or to travel with a Radiometer in our
hands to determine the impurities of
^{we breathe;}
the Air, on the contrary

V deficient state of knowledge and industry
in individuals and public bodies with
respect to the means of obviating the
diseases ^{which arise} from the insensible qualities
of the air,

may all be inhabited, ~~and~~ by persons
in good health, and since the Diseases
incident to each of them be avoided ~~The~~
this were ~~the~~ not the Case, the greatest
part of our ~~Globe~~ ~~was made~~
in vain. I ~~except~~ except from this
general remark, persons predisposed by
previous debility to
particular Disease. The Situations with
respect to Air, as well as other things
which ~~are proper~~ ^{are proper} for such persons
shall be taken
notice of hereafter.

In the present ~~state~~ ^{ignorance & indolence with} of ~~various~~ ^{changing} ~~globs~~
~~respect to the~~ benefit will be derived from ~~changing~~
~~the~~ ^{it} ~~air~~ by the following Classes of people.
Children born in Cities should pass their
Summers for the first seven years of their
lives when practicable in the Country.

[The text on this page is extremely faint and illegible. It appears to be a handwritten letter or document, possibly in cursive, but the characters are too light to transcribe accurately. There are several dark spots and smudges visible on the paper.]

Persons who reside in Cities
 men of business will ~~find~~ preserve their
 health, and prolong their lives either by
 spending their Summers in the Country,
 men of business, ^{who live in Cities} will ~~be~~ derive
 nearly the same Advantages from
 spending their evenings and nights
 in the Country.

Old people who have passed their lives
 in the Country will avoid many of the
 Diseases and Distress ^{much of the} peculiar to their
 time of life, by retiring to a City in
 which they will have company upon
 easy terms, - ^{warm houses,} convenient Access of a place
 of worship, and that Variety of ^{chief} Amusement
 (so agreeable ~~to~~ company to Old ^{people}) which
 is to be met with in much greater
 abundance in a City market than



upon a farm.

A ~~To preserve~~ ^{old people} Affluence
Change from a Cold, to a ^{warm} Climate ~~and~~
~~family~~ ^{has} often added years
of life health and life to Old people.
The wealthy Romans Citizens of Rome
~~in the decline of life~~ ^{is} removed to
Naples, ~~and the~~ in the decline of life,
and the wealthy Portuguese & frequently
migrate to the Brazil in order by
getting nearer to the Sun to partake
~~of his rays~~ ^{protract} beneath his
stimulating ~~and~~ ^{cardiac} heat, the Duration
of their lives. — and manufacturers
~~and~~ mechanics who work in
companies, and in small rooms should
often change their air. see pathol. & Therap.

2

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[Faint, illegible handwritten text at the bottom of the page, likely bleed-through from the reverse side.]



were made necessary to his subsistence
~~to much greater as to extra~~ were
so much encouraged as to induce a sweat
~~rate so great as to be accompanied with~~
upon the sweat of his brow with
~~these exertions that cover the body with~~

Sweat. But ~~even~~ in this change
of the Objects and Degrees of labor ~~the~~
Creator appears to be still kind
~~discovers its kindness~~ to man. the
changes which his ^{had} introduced into
his mind ~~body~~ as well as his body
rendered a larger portion of those
means which were intended to prevent
~~it~~ necessary to ^{cure} it, and ^{the}
the ^{mark} ~~body~~ of this additional labor ~~that~~
his brow, the means of rendering it inf-
-ferious to his Constitution. The
truth of these remarks is manifest
from the good health or happiness &

[The text on this page is extremely faint and illegible. It appears to be a handwritten letter or document, possibly in cursive, but the characters are too light to transcribe accurately.]

longevity which have accompanied
 labor in all Ages & Countries. Where
 it has been otherwise, it has been because
 tyranny has rendered it excessive in
 its degree, or deprived the subjects of it
 of the Quantity of Aliment, and
 Clothing which ^{were} necessary to
 render it tolerable, or where folly
 and vice have connected it with
 the Use of ardent Spirits.
~~intemperance or~~

I have said labor is conducive
 to the preservation of health and the
 cure of vice, ~~both~~ when submitted to
 in the degree intended by heaven; it is
~~always attended after a while with~~
~~pleasure. This is the original connection~~
 but the same law of our
 nature.



natures which converts ^{the disagreeable} ~~painful~~
 & painful
 = all impressions ~~from certain impressions~~
 upon our senses by repetition into
 such as are agreeable & pleasurable
 by habit
 converts the pain of labor by habit
 into pleasure. Of this thousand can
 bear witness who ~~have~~ ^{with the morning} have resorted
 with the dawn of day to
 the loom, and the plough, to the hammer
 and the anvil with alacrity & left them
 with reluctance with the sitting pen.
 Its pleasurable nature of labor is
 winced still further by the languor
 & even distress which attend its intervals
 when protracted beyond the times of which
 ^{renew}
 active nature requires to wind up the
 ^{strength}
 machinery of the body. The total effect



obvious & acknowledged
 this ~~history~~ friendly operation of labor
 of our ladies has often ~~consolidated the~~
~~author~~ ^{in beholding} ~~into in wanting it and~~ which
~~has~~ is both ~~also~~ upon the human
 body ~~has led us to suppose~~ ^{leads to a} belief
 that it is attended with the ^{pleasure} ~~same~~ ^{is}
 effects ⁱⁿ ~~upon~~ other animals, and thus
^{calculated to} reconcile us to our moderate and
 just exactions of it ^{from these,} ~~from these~~ for
 our benefit or our pleasure.

The however necessary, useful, and
 even pleasant labor may be, it is plain
 that the business and duties of civilized so-
 ciety plainly indicate that it cannot be
 universal, ~~shown~~ ^{after} in the manner of its
 original institution. ~~From a sense of its~~
 importance taught by suffering from the



neglecting it, man has resorted to Exercise
as a Substitute for it. ~~It has many~~ ^{God made labor}
~~of its Advantages, but after all it is so far~~
~~inferior to it~~ ^{labor} ~~that it carries with it marks~~
~~of its origin its~~ ~~but man~~ ~~it is~~ ~~with~~
all its Advantages, it is much inferior to
labor in it. Thus we see God made labor
but man made exercise. ~~However~~ ^{However} ~~useful~~
^{as the latter} ~~an it may be,~~ ^{marks of inferior origin} ~~it carries its inferiority to the~~
~~ground~~ ^{on} ~~in its being less constant~~ ^{more partial}
and often more deficient or excursive in its degree
than that which ^{is} the Gift and Command of
Heaven.

^{is necessary to the following}
~~Body Exercise~~ ~~the following~~ ^{Classes} of people. ~~have~~

- 1 Persons ~~wholly~~ ~~in~~ ⁱⁿ affluent & independent
Circumstances who are not engaged in business.
- 2 Idlers men who labor ~~with~~ ~~them~~ ^{lead}
sedentary ^{at} lives.
- 3 Artificers who labour with only a part of
their bodies, and
- 4 Invalids.



Bodily exercise has been divided into active
passive and into that which partakes of
each of them, or that is of a mixed nature.

~~It is further divided~~

To the active exercises belong walking, run-
ning, jumping, ^{swimming} dancing, ^{quits,}
reading aloud, ringing
Golf, Shuttle Cock and ~~some others~~

To the passive exercises belong riding in a
Carridge. In swinging, rocking in a Cradle
Swinging. riding in a Carrage & sailing &
frictions.

To the mixed exercises belong riding on
horseback - rowing, and some others which are
taken from labor such as rowing, digging in
a garden, cutting & sawing wood.

The following rules should be observed in
the use of all exercise.

1 The whole body should, when practicable
be exercised. In this way very part of the



for of it will be alike strengthened, and thus
an equilibrium of health be preserved.

Exercise moreover can be protracted longer
in this manner,
and of course more benefit be derived from
it than when it is partial in its opera-

tion. Of this we see a striking proof in
the less fatigue that is felt in climbing
a ladder in which the hands are employ-
ed as well as the feet, than in walking up
a pair of stairs in which the feet only
are exercised. In walking, the Arms

move regularly, ^{among civilized men,} ~~among civilized nations,~~
~~but this not the case~~ in consequence of

which they share in a small degree with
the lower limbs in the ^{advantage} ~~benefit~~ of that

exercise, but among the Indians who
employ their ^{arms} ~~hands~~ in supporting their
blankets around their bodies, this is not

the case, hence they become fatigued ^{from} ~~some~~ walking sooner than their civilized neighbors. To obviate this fatigue ~~they~~ ^{they} in their long marches they take up a stick of wood, ^{or a rail} and carry it in their arms or upon their shoulders for an hour or two, by ~~which means~~ ^{which} they and then throw it away. By this, ~~propetice~~ ^{they} invigorate ^{impart} their ~~to an equilibrium of~~ ^{equalize the} strength of their whole, ~~and~~ ^{and} bodies, and remove the sense of weariness from their lower limbs.

2 Exercise should never be used ^{until} ~~until~~ it induces fatigue. ~~Persons should~~ ^{Persons} ~~disist~~ ^{disist} from it, ~~as far as~~ ^{as far as} are directed to do from eating, ~~with a desire for more.~~ ^{When} ~~Whenever~~ this is felt, the system is ^{becomes} predisposed to disease, ~~from~~ ^{from} and the ~~the~~ ^{the} Persons should



Desist from exercise, as we are directed
to shun from an eating - with an
aversion for inclination for more.

3 It is ~~so~~ unsafe when used before
breakfast in the morning, and after
night in the open air more especially
during the prevalence of the Diseases of the
Summer & Autumnal months.

4 It should be preferred in the open
Air in ~~of~~ dry weather. ~~Exercise is~~ but never
in extremely warm the hot sun
~~the effects of~~ Exercise in a warm close
room alters the ~~not only en-~~
-creases the perspiration but alters its
qualities, so as to ^{dispose} ~~render~~ it ~~acid~~ to
produce disease. A proof of this was men-
tioned in ~~the~~ the last page of the Chapter
upon Air. -

5 ~~When~~ Great fatigue should be avoided in the use of exercise, but where it has been induced, the dinner should be changed, or great care should be taken not to rest suddenly ^{nor} in a cool place nor in a current of air.

6 Exercise should never be used in less than three or four hours after a full meal.

7 In all the different kinds of exercise the dress and ligatures upon the body & limbs should be loose, otherwise ^{from} the swelling of the muscles, they will give pain, and thus ~~and~~ defeat the benefits of exercise.

8 ~~It should be noted to the situation of~~ travelling the legs the more little should ⁱⁿ



~~life, age, sex, occupations and season~~
~~of the year~~ he caters ~~during the day~~
~~and~~ until the journey of the day is
over, ~~where~~ and if there is a disposition
to fatigue from riding, it will be
useful to walk the floor for half
an hour before rest be taken either
in a sitting or lying posture.

In travelling upon foot, rest
should always be taken in a recumbent
posture. The muscles are thus equally
relaxed, and ^{remains of their} ~~the~~ excitement equalized. The
I was first struck with the ^{sudden} relief from
fatigue obtained by this practice ^{by the} ~~at~~ the
soldiers of the ^{American} Army during the revolutionary war.
After lying down for half an hour ^{twenty minutes} ~~an hour~~ & a quarter
or half an hour upon the grass, they rose
in an alert manner, and ran to their
quarters as if they had just risen from their beds.

1871

Exercise should be suited to situation in life, age, occupation - season of the year, and predisposition to particular diseases. —

Walking is the best mode of exercise for preserving health, and should be preferred by all persons who are ~~to~~ in easy circumstances. It exercises all the muscles of the body, ~~and particularly~~ ~~it produces a con-~~
~~stant of Air~~ ~~are but chiefly the~~ ^{the effects of}
 lower limbs in which ~~the~~ ^{the effects of} ~~exercise~~
~~in~~ ^{are} ~~drinking~~ ^{is} most apt to
~~show~~ ^{show} themselves. It ~~promotes~~ ^{promotes} perspi-
~~ration~~ ^{ration}, and carries it ~~an-~~
 immediately beyond its influence by a con-
 stant ~~and fresh~~ supply of fresh Air.
 Next to walking, riding on horseback



should be used by persons ^{who are not} ~~who~~ ^{substantive}
not obliged to work for their ~~relief~~ ^{relief}

- It strengthens the breast, and restores
the stomach and bowels by gently
agitating them, from the effects of
~~excess~~ intemperance in eating. ~~It~~ To
therefore ^{swimming} ~~may~~ ^{should} be added ^{the} ~~the~~ ^{manly}
games of football, ^{five} ~~cricket~~, quoits, Golf,
Rocking in a cradle ^{and riding in}
~~riding in a carriage~~ ^{in a carriage},
will be useful to children before they
are able to walk. I know ~~that~~ ^{an} ~~object~~
^{it has been objected}
~~that~~ ^{has been} ~~made~~ ^{to the} ~~former~~

mode of exercise, ~~and~~ that it injures
the brains of children, and thereby in-
pairs their intellects. ^{Two answers may} ~~It might be~~
^{be given to this} ~~sufficient to explain answer to this~~



Objection to say there are no proofs of the
 fact, ^{1st} on the contrary, the wisest men
 that ever lived, have passed through
 a Cradle to their eminent stations in
 the world, and 2^{ly}: exercise similar to
 nursing is that ~~the~~ kind of exercise
 which approaches nearest to that to
 which ^{an infant is} ~~an infant is~~ ^{kind of exercise} ~~accustomed~~ before its birth more espe-
 -cially during the ~~very first~~ ^{from} night, when
 the topings and turnings of its mother in
 bed; of course it must be not only
 agreeable, but natural to in the first
 months of infancy. It aids ^{by its gentle} the invol-
 untary exercises of their little limbs
~~in as a stimulus in supporting the~~
~~the flame of animal~~ ^{from} ~~the~~ life while it is in its ~~use~~



weak
~~habits~~ and forming state.

In youth and middle life the exercises
should be walking riding, jumping, ^{dancing,}
^{seating,} digging in a garden, ^{cutting & sawing}
swimming, ^{and the more active games}
wood,
which have been mentioned.

In old age the exercises should be like
~~those of infancy and childhood~~ chiefly
of a passive nature. ^{moderate walking,} riding in a
Carriage, sailing, ^{reading aloud,} ~~and talking~~
singing. The three last, by the impetus
they ^{give} impart to the blood in passing
through the lungs, invigorate the whole
System. The "Narrative" Disposition is so
common & so unjustly complained off
in old ~~life~~ ^{people,} is one of the strongest lig-
aments of their lives, and the great ^{or} ~~the~~
facility with which they are able



to exercise this disposition in cities, than
 in the ~~country~~, is one reason why more
 instances of longevity are more
 common in them ~~than~~ ^{than} in
 the ~~country~~ ^{country} places. "I will practice physic
 (said an old physician in England) as
 long as I live, for ~~if~~ if I retire from
 business, I shall be deserted by the
 world, and have no body to talk to,
 but while I continue to exercise my
 profession I can compel my patients
 to hear my conversation."

~~Human, ^{from the greater exigencies} require less exercise than
 - birds of their system, ^{and} require
 less exercise than even. It was be-
 - cause they have redundant employment~~



~~without being much injured by them~~
~~that the business of the Taylor was~~
~~carried on by them in ancient Rome~~
~~are confined to this household~~

When old people ~~have advanced~~
and weather, or when they are advanced
beyond that period in which exercise
is safe or practicable, ~~these kinds of~~
frictions should be used to their
limbs and bodies. In China there is
a class of men who maintain them-
selves by going from house to house
like hirculpers in other countries, in
order to apply this remedy to ~~the~~ ^{persons} in
the decline of life. They first gently
strike them with the side of the hand, &
then ~~and~~ follow these strokes by gentle
rubbing frictions either with a dry



hand, or a piece of silk or muslin
 impregnated with the smoke of myrrh,
 or some other fragrant & stimulating
 gum. ^{The operation is} It is called Champuing. It
 is said ^a ~~of~~ ^{man} of 65 ^{years of age} after having
 submitted to ^{it} in the morning, walks
 out afterwards with the ^{vigour &} complexion
 of a man of fifty years ^{of age}. ~~He~~
~~of 60 years of age that belong to the 50-~~
~~from the return of that state of the system~~
~~year~~ ~~old~~ people who are advanced to that
 stage of life which has been called De-
 -cristude should ~~be~~ ~~not~~ be per-
 -mitted to walk upon uneven ground
 without the support of a staff, or
 of what will be much better the
 arm of a friend. ~~From the return~~
~~of the weakness of that state of the~~



in old people
System, which takes place in infancy,
they are disposed to ^{in walking} stumble, and from
this losing a prompt command over
their voluntary actions, they are unable
to ~~throw out their arms so as to pro-~~
~~tect~~ preserve their centre of gravity
by the balance of their arms, ^{and}
~~to defend their heads and bodies from~~
^{hence} injuries, they generally fall, and
from ^{an} ~~the same~~ inability to project their
arms in falling, they ~~whole~~ often
injure their heads and sometimes break
or dislocate their bones. Accidents of
this kind are very common in the
practice of all physicians. They should
be prevented by never permitting ^{very} ~~old~~
old people to walk upon uneven ground.

V Many ^{men} studious who have lived to ^{be} very old
~~have~~ ~~men~~ ~~men~~ ~~have~~ ~~spent~~ the
have spent the ^{their} last years of ~~long~~ lives in their closets
free from pain and disease. The celebrated
Mr Bayle ~~had~~ ~~never~~ breathed no other
air than that of his room in
~~from~~ ~~years~~ ~~for~~ before during
the greatest part of his life. ^{But} ~~for~~ ~~that~~

without the support of a staff, or what will be much better, the arm of a friend. —

It is a fact worthy of notice that the body suffers less from the want of exercise in the feeble state of old age than in any of the previous stages of life. ^{which has been called senility} Thousands of old people pass from ~~to~~ ^{in whom the exercise of the mind does not supply the defect of activity of the body} their 80th to their 90th and even 100th year in an arm chair, or in that state in which they are said to be bed-ridden, ~~who are totally destitute of the vigorous~~ ^{Do not suppose} ~~with good appetites~~ During this time they eat heartily and sleep well. It would seem in these cases as if the habit of living rendered the system less dependant upon the stimuli which gave the first impulse to life the motions of life. Perhaps too the animosity



of all their secretions & excretions acquired
by age, may supply by ~~these~~ ^{its} stimulating
Qualities the absence of the stimulus of
exercise. —

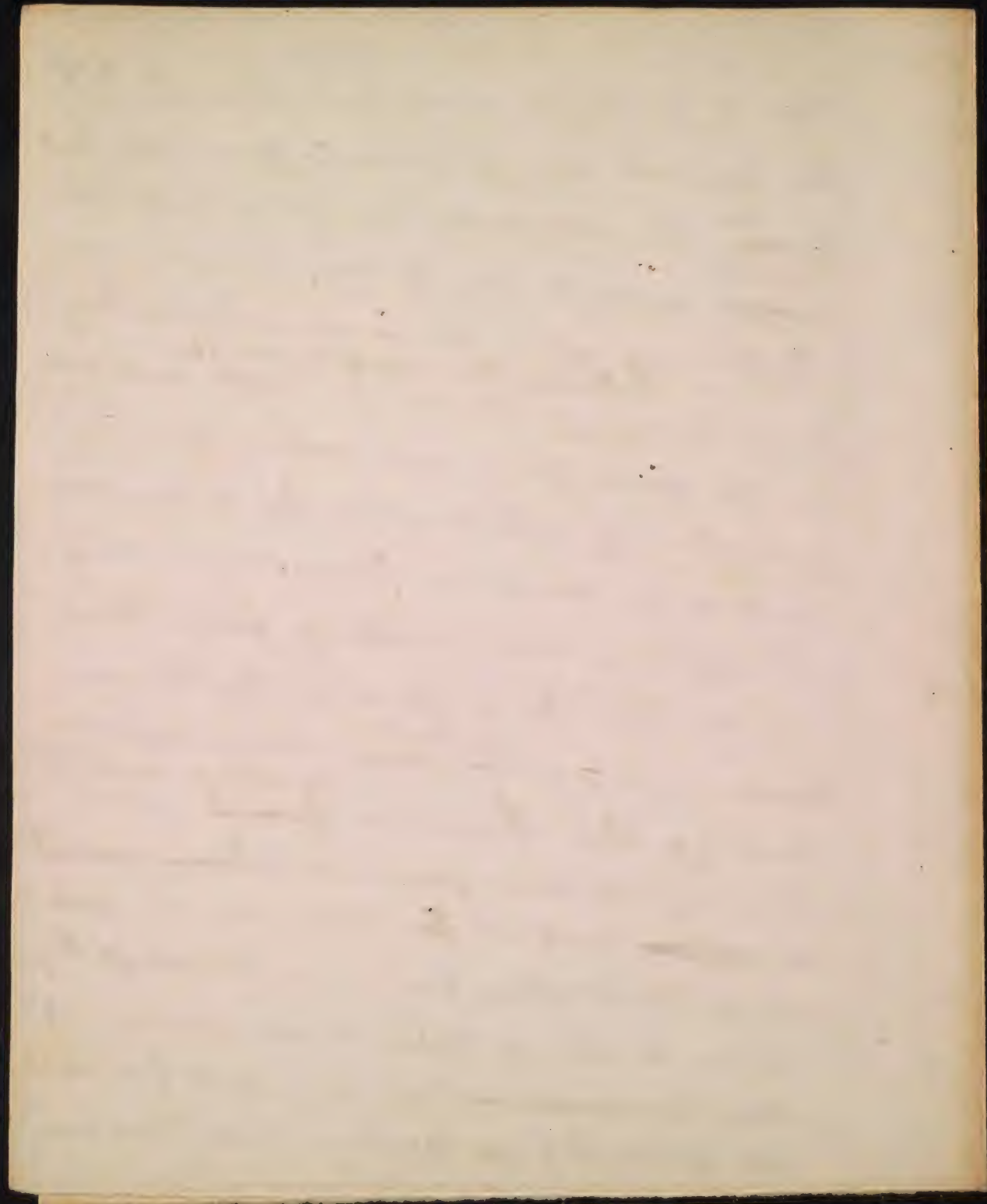


without the support of a staff or what
will be much better the arm of a
child, a grand child, or a friend.

Women, from the greater ~~con-~~
irritability of their systems, ~~the~~ require
less exercise to preserve their health
than men. They were for this reason
destined to the sedentary employment
of the Taylor in ancient Rome.

The activity of their minds supplies
in a degree the exercise of their bodies. ^{light}
Domestic ~~and labor~~, labor, ^{Domestic}
~~The~~ walking, dancing, and riding on
horseback and in a Carriage are the
exercises most proper for them. They
should never be dispensed with when
practicable at any time of life, but
they are most indicated about the

Age of puberty. It is at this time ^{of life}
the female Constitution is formed, &
~~from~~ ^{on} the manner in which it is
~~spent~~ ^{spent} depends the future health, or
sickliness of a woman. Let no day
pass therefore ^{between the ages of 14 and 20,} without a walk, or a ride
in the open air, and when this is
forbidden by bad weather let a Double
portion of Domestic labor consisting
in making beds, rubbing furniture,
and the like be performed by them.
Women derive ^{great} ~~the same~~ Advantages from
exercising their lungs in ~~House~~ ^{speaking, reading, &}
singing, ~~that have just now been ascribed~~
~~to old people~~ and it for this reason pro-
-bably that they are more disposed by
nature to all of them than men. A
~~vicious woman~~ ^{is Taciturnity & bad health}
~~are~~ generally go together in a Woman.



If they are less agreeable or instructing
 in the use of ~~this~~ organs ^{and} voice ^{or}
^{more} than ~~reason~~, it becomes ^{the other} ~~them~~ to
 inquire whether they are not made so
 by the neglect of their education, or by
 making ~~that~~ it to consist in ^{external} amuse-
 ments rather than in ^{just} ~~solid~~
 principles and useful knowledge. —

Studious men suffer from their sitting
 posture, and often from pressing their backs
 with their breast or bowels in writing. By
 the exercises of their minds, they abstract
~~themselves~~ nervous influence so necessary
 to the health of every part of the body
 from the trunk of the body particularly
 the stomach, and ~~the~~ from the lower
 limbs. Their bodily exercises of course

is in favor of walking. It was the principal mode of exercise of a Sect of philosophers in Greece, who obtained from it the name of Peripateticks. It not only equalizes the ~~the~~ excitement of all the muscular parts of the body, but it ~~improves~~ aids the ~~various~~ ^{by others} operations of the mind. We are taught ^{by others} in our Closets, but we teach ourselves in our ~~evening~~ walks.

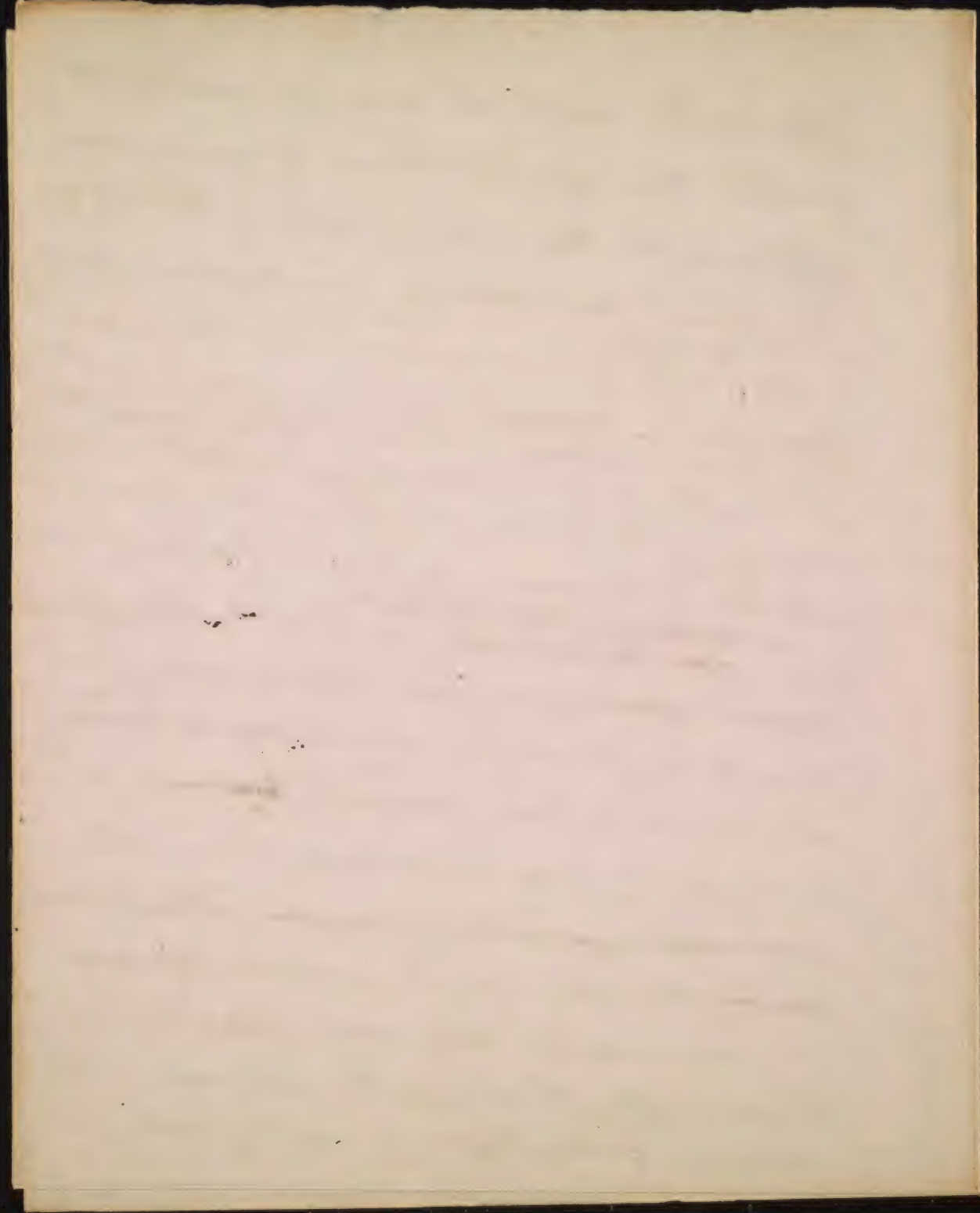
should be such as are calculated to
restore the equilibrium of nervous
influence to ~~the~~ every part of the body.

They should be walking, jumping, foot ball
swimming, skating
rowing, cutting & sawing wood, and riding on

horseback. ~~the~~ ^{Too much cannot be said} ~~that are proper for~~ ^{for} ~~the same exercises,~~ ^{for} ~~will be equally~~ ^{for} ~~men who pursue sedentary~~ ^{for} ~~Occupations of~~
all kinds, ^{in which the} stomach, bowels &
lower limbs are in a passive state. Inex-

~~In exercising~~ ^{exercising these} ~~parts of the body, which~~
~~have suffered, have been passive,~~ ^{those} ~~care should~~
should be taken to relieve ~~the arms~~
which have been occupied ~~by~~ ⁱⁿ
business, by new exercises. Thus ~~the~~

~~arms of a printer a taylor a shoemaker~~
~~and of all those mechanics & artificers~~
who work exclusively with these arms,
should employ them in the intervals of their
labor in cutting wood or sawing wood - or



in rowing. Digging in a garden, or in plough-
 =ing at Quits or Goff. By these means
 all the ^{of this arms} ~~arms~~ will be brought into ~~action~~ ^{each off}
 and equal strength be imparted to them.
~~This change in the employments of Arti-~~
~~fices of all kind~~

Similar Advantages would attend a change
 in the exercises or labors of Artificers of all
 kind. The ^{limbs of the} ~~limbs~~ ^{the} ~~smith~~ ^{and} Carpenter would
 be strengthened by the labors of the hardest
 field, and the same benefits would be ~~enjoyed~~ ^{enjoyed} by
 the farmer from his taking the row &
 then a harrower and a trowel into his
 hands and repairing the decay brought by time
 upon his house and barn. —

~~The~~ ^{specific kinds of} ~~all the exercises that have been~~ ^{are proper}
~~mentioned should be accommodated to the~~
~~predisposition of~~ ^{for} persons who labour
 under peculiar predisposition to certain dis-
 =eases shall be ~~the~~ ^{noted} in another place.



Having recommended riding on Horseback
as one of the first and best modes of exercise
for promoting health, the reader I hope
will not be offended by at my hereby joining
to this Chapter a few Directions for preserv-

-ing the health of the ~~vast~~ Animal that
that is to the instrument of impelling ~~for~~ this
~~to which we owe so much of our power~~
exercise.

We owe him many ~~other~~ obligations. ~~Plac-~~
~~-ture and interest~~ Agriculture & Commerce,

pleasure and interest are all his debtors, but
I ~~found my petition for a~~ ^{in this work} ~~petition for a~~ ^{place for the}
~~to direct as place in this a place in this~~
Directions ~~make~~ I am about to deliver chiefly upon
his Contributions to the health of man.

1 A horse ~~feeds~~ always inclines to eat
constantly. He is compelled to do so by the
small size of his Stomach. It is necessary
therefore that he should always have access
to food when he is not under the saddle,
nor in harness. The reason why

horses in this country lose their flesh after
~~more or less fall away~~ after the first of
~~June in this middle states country is because they~~
~~the heat of the sun drives them to seek~~
~~the shade, and flies prevent them feeding con-~~
 -stantly by the heat of the sun driving
 them to seek the shade and by the annoy-
 -ance of flies. Both these causes operate
 in the field, and the latter in a stable with
 open windows. To obviate both, a horse
 should be kept in a dark stable in the
 day time, and let out to pasture only in
 the night. The heat of a dark stable is
 less hurtful to ^{him} than the biting of flies,
 and the night protects him ~~not only~~ from
 both flies and the heat of the sun. As a
 proof of the correctness of this direction it
 has been remarked that a horse acquires
 more flesh and fat in those weeks in the

I remembered, that the stable should
be darkened only when the flies are
troublesome to ^a horses, at all other
times they ~~should be~~ light should
be let into the stable by means of
a glass window, ~~which~~ from the
effect of this direction many
horses become blind in consequence
of the violent impression of the
light upon their eyes when they
are first taken out of a stable.

months of June than he does in all the
succeeding hot months. I wish it to be

2 A horse acquires more nourishment
in a shorter time by feeding upon hay
than grass. He cannot procure his flesh
upon less than twelve pounds of hay in
the four & twenty hours. ~~But~~ Sixteen pounds
are usually given to a Dragoon horse in the
that time in the British Army.

3 The longer a horse is in taking his ^{food} ~~man~~
the more strength it imparts to him. The
old field horse (as he is called in Maryland)
owes his uncommon hardiness to the
long time he spends in picking up ^{the} ~~his~~
low and slender grass of an old, or fallow
field.

4 To induce a horse to feed constantly,
and to masticate his food thoroughly,
but little should be put into his



rack or manger at a time
 500 Hay is better than rye, and timothy
 grass is said to be better than Clover.
 6 Indian Corn affords the most, and Oats
 the least nourishment to a horse of any
 of the grains. ~~They~~ ^{They} afford all the
 grains afford one third more nourishment
 when they are ground, and one half more
 when they are boiled, or baked. In Holland
 horses are fed ~~with coarse~~ with grain
 made into a coarse bread. It is useful to
 mix cut hay, or straw with all the ^{small}
 grains that are given to a horse. The cob
 should be ground, and given with Indian
 Corn to a horse. All these substances act
 by compelling a horse to masticate



his food more completely, and they further
under by the stimulus of Distention in
the Stomach his food necessary to support
~~the~~ his strength and activity. Oats from
being less stimulating than other grains
should be prefer for a horse when he tra-

-vels. I mentioned formerly that
if a horse when he feeds upon hay or
grain seldom makes use of his fore
teeth as he does when he feeds upon
grass, ^{for which reason} ~~because~~ his foreteeth become so
elongated as to prevent ~~their~~ ^{his} jaws teeth
coming in contact, by which means ~~they~~ ^{he}
~~is~~ ^{is} unable to grind ~~their~~ ^{his} food, and swallow
it in an undivided state, and hence ~~they~~ ^{he}
consumes poor and weak with the greatest
quantity of Aliment that can be given
to ~~them~~ ^{him}. To prevent this, where it is



not convenient to send him to pasture,
 he should be fed once or twice every
 week upon unshelled corn, ~~or~~ that is
 corn upon the cob. ^{In} feeding upon
 corn in this state he is forced to use
 his ^{fore} ~~jaw~~ teeth, and thus keeps them from
 projecting from their sockets above the
 level of the jaw teeth. There is economy
 as well as humanity in this practice,
 for where a horse ceases to ^{grind his food} ~~work~~
 with his jaw teeth, he consumes ^{a double} ~~twice~~
^{quantity} ~~amount~~ of it and is thus kept at a
 double expense.

- 8 The oftner the food of a horse is changed
 the better. ^{now & then}
 9 a little salt mixed with the food of a
 horse helps his digestion, & obviates worms.



10 ~~a horse~~ ^{the} should drink twice a day in winter and three times a day in summer while he is kept in a stable.

11 He should stand upon ~~a hard floor~~ ^{an even} floor, or nearly so in a stable. A debility ~~when~~ descending from the manger, although it favours the descent of the Urine fatigues a horse by throwing an undue proportion of his weight upon his hind legs, which disposes them to swell, also to a Disease ~~known by the~~ ^{known by the} name of the Scratches. The Urine should be made to pass through a hole into the ground under his belly.

12 A warm stable in winter is favourable to the health and flesh of a horse. It saves food, for in a cold stable he eats to keep himself warm. The German ^{farmer} in ~~the~~ ^{fact is} Pennsylvania to whom this ~~practice~~



~~well known~~ ^{benefitted} ~~in~~ have long ~~profitted~~ ^{benefitted} both themselves and their horses by this practice. In very cold weather, ~~and~~ the body of a horse should be covered with a blanket, where his stable is not sufficiently warm. —

13 Great attention should be paid to the shaving of a horse. His ~~low~~ gait & his health, and often the safety of his rider depend upon it. For some useful directions upon this the reader is referred to White's farriery.

14 A horse should be well cleaned & curried every day.

15 He should be ~~can~~ taken to a stream of water ~~and~~ once or twice a week in warm weather, and made to exercise his limbs by swimming. By this means ~~muscles~~ will be brought into



~~Actions which are ~~not~~ are nearly performed~~
~~in his ordinary~~ ^{gaits,} and new actions will be
given to his muscles and his health &
strength thereby be improved. The swimming
will further serve to wash his skin.

16 He should used tenderly when he is shed-
ding his coat, being weaker at that time
than at any other season of the year.

17 In performing a short ^{rapid} journey of thirty
or forty miles in a day, a horse should
eat but little grain. In ^{which are performed} protracted journeys
^{slowly,} he should eat grain moderately during the
day, and plentifully at night. This will
be the more necessary from his not having
time ~~enough~~ ^{enough} to eat as much hay or
grass in the day time as will be suffi-
cient to fill up his blood vessels, & keep
up his flesh.

I have been thinking of you
 and wondering how you are getting on.
 I hope you are well and happy.
 I have been very busy lately
 but I will write to you soon.
 I am sure you will understand.
 I have been thinking of you
 and wondering how you are getting on.
 I hope you are well and happy.
 I have been very busy lately
 but I will write to you soon.
 I am sure you will understand.
 I have been thinking of you
 and wondering how you are getting on.
 I hope you are well and happy.
 I have been very busy lately
 but I will write to you soon.
 I am sure you will understand.

18 never suffer a horse to drink well
 or spring water when he is warm. It
 often founders ~~a horse~~ ^{begets horse}, or in other words,
 produces a rheumatism in his feet.

Running water in summer, and when
 cold in winter (from ~~the horse's~~ ^{this} feet coming
 in contact with it before he drinks)
 seldom injures him.

19 He should well rubbed at every stage
 in travelling. It removes fatigue by rest-
 =citing the ~~fibres~~ ^{and} muscles of his limbs.

20 Always take off the saddle or harness
 from a horse when you stop to feed him.
 - It cools him and makes his rest more
 complete. Washing his back ^{and breast} with cold
 water, or throwing a bucket of cold water



upon ^{them} ~~it~~, prevents ^{their} ~~its~~ being galled by the
saddle ^{on} ~~or~~ harness. If he wet with sweat,
and not much fatigued, the ^{cold} ~~hot~~ water
may be thrown over his whole body. His
feet should be often washed with cold water
in hot weather both in travelling & in the
stable.

21 After ^{hard} ~~riding~~, or driving a horse do not
permit him to rest suddenly. By walking
him for a quarter an hour you prevent
stiffness and founder.

22 Never permit a horse to stand in
the open air after night if he ^{look} ~~perceives~~
much fatigued. The locked jaw is
sometimes brought on by the action
of the night air upon him.

23 Always ride slowly for two ~~mi~~' or

three miles after you have a stage, also
 up and down a hill. ^{In Scotland they} ~~The Scotch people~~
 express the latter part of this Direction
 in Verse: 'up hill & down hill gang slow.

" Feed well & rub sare

" and ~~and~~ on a plain never spare.

24 Throw as much of your weight as

possible ^{in riding} near the shoulders of a horse.

Heavy baggage placed over his kidneys is
 always hurtful to him, especially if his
 gait be a trot.

25 It is common to advise riding with
 a tight rein, in order to prevent a horse's
 stumbling, but ^{some} late writers upon farming
 say it ^{is} often ~~causes a horse to stumble.~~ the ^{the} cause of it.

The famous Mr John Wesley rode many
 thousand miles every year with the reins



of his bridle thrown over his horses neck,
without ~~being once thrown from his horse~~ ^{his stumbling by which means,}
he was able to read with ^{nearly} as much ad-
-vantage as if he were in his study.

26 Horses possess a social principle in a high
degree more especially such of them as
are good tempered, but their society is very
limited. An hundred horses in a field
pair themselves ~~pair themselves~~, which
pair feed and drink together. Two horses
that have travelled ~~along~~ along side with
each other, and are afterwards confined
in the same ~~stable~~ pasture will seldom
leave each other, even though one of
them is addicted to hopping fences. A
horse therefore always travels the better
for his companion by his side, or



before him. It would be a good practice
for^a Gentleman upon this Account, who
travels with a servant to oblige him to
ride before ~~to~~ instead of behind him. To
derive benefit from this social principle
in horses they should always be fed &
stabled together upon a journey.

27 The sound of a human voice has
an agreeable effect upon the spirits &
strength of a horse. An experienced
blowman once told me, that his
horses performed with twice as much
spirit when he sang to them, as when
he did not. In this respect the horse is
upon a footing with the human species.
Soldiers march with double spirit with
the noise of the fife and drum sounding



in their case.

28 Iba horse flag, near the close of a
journey, ardent spirits or ^{mixed with his food,} porter will
reexcite his strength. They should be given
at no other time, for ^{they produce only} ~~this good effects are~~
~~never permanent, and a short, and~~
transient ^{stimulus} ~~excitation~~, barely sufficient to
carry ^{him} ~~a horse~~ to the end of his journey.
^{By a careful attention to} ~~have a request of these directions~~
^{which} horses in this Country are often worn
out or cripples at thirteen or fourteen
years of Age ~~they~~ may be kept alive &
fit for service, for twenty or five and
twenty years, much to our benefit &
the credit of humanity.

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of Sleep

Among the many paradoxes in Science with
 which modern times have teemed, few have
 been more absurd than that portion of the
 belief held by the late majority of Doctors
 that Sleep ~~was~~ ^{has taken pains to prove} a Disease, and that Philoso-
 -phy ~~would~~ ^{will} one day find a remedy for it.
 In the present Constitution of our bodies
 that day can never arrive. ~~Admitted~~ ^{Did we}
~~admit it to be a disease, we would~~ ^{admit it} Had he
 said it was a remedy for disease, he would
 have been more correct. ~~It~~ Happily for
 us, it removes light indispositions by equa-
 -lizing the excitement of the system - it
~~restores~~ ^{removes} that Substance or Quality in the body
 upon which Stimuli act in the production
 of life - ~~it does it restores~~ ^{it dissolves} ~~there~~ ^{dangerous}
 Apparitions of ideas, which in a ~~when the~~



in a house if not interrogated by ~~sleep~~ ^{light} would
mind is under the influence of a durable passion
would ~~not~~ ^{be} as in a hundred instances
produce derangement, and ^{lastly it} restores the
understanding and moral faculty to their
elevated & preeminent seat in the mind &
thus prevents both disease and vice. "Without
Sleep and hope man (says Mr Kant)
would be the most miserable creature
upon the face of the earth." ~~Shakespeare~~
~~Account of Sleep accords more perfectly with~~
this amount of Sleep ^{avoids with the} ~~is expressed in more~~
history of it given by the great philosopher
as well as poet of nature, ~~Shakespeare~~.

"Sleep - knits up the ravell'd sleeve of care.

———— Sore labors bath,

"Balm of hurt minds, great Nature's
second course.

"Chief nourisher, in life's feast. —"
Well therefore has Mr Kant said "without Sleep
& hope man would be the most miserable

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creature upon the face of the earth."
 I shall now deliver some general rules
 upon this subject.

1 Sleep should never exceed ~~of~~ ⁸ or eight
 hours in the twenty four. Persons in health
 never require more, and many people
 who enjoy good health with less. The
 celebrated ^{John} Wesley slept but six hours
 in the twenty four during the greatest
 part of ^{his} ~~his~~ active life which lasted ^{until he} till
^{of age.} nearly 86 years. History records the
^{names of} many famous men who have
 lived long and in health upon men less
 sleep than the degree of it which have
 been mentioned.

2 ~~Sleep should be taken~~ Great Advantages
 to health will arise from going to bed at
 an early hour. The system about



~~I collect and across a flight pass~~
by this means
The System is suffered to repose After the
impressions of the day have exhausted its
natural stock of excitability, and before
it ~~is~~ is exposed to the artificial stimulus
- of study, ^{or} company or strong drink.
As a recumbent posture of the body
favour this ^{public} state of the System, and
prepares it for the recruits of Sleep. By
going to bed early, we are enabled to
rise ~~with the hour~~ ^{early}. The morning
favour study and business. and in this
~~conduces to health~~ It favours likewise
the regularity of
~~one~~ of the exertions to be mentioned here.
- after, all of which conduce to health.
The late Lord Mansfield who. was very
attentive to all the circumstances that
promote longevity, once remarked that



he had never known a long lived person who was not an early riser. —

An advantage will be derived from going to bed and rising at the same hours. The system ~~conforms~~ ^{conforms} ~~to~~ ^{to} them, by which means ~~they both become~~ ^{sleeping and waking} take place in an easy and natural manner.

3 ~~The~~ In the Savage state sleep is safe & agreeable with the head in a horizontal line with the body, but civilized man ~~requires from~~ ^{requires} that his head should be somewhat elevated above the shoulders. A pillow serves this purpose, and when so necessary does it become from habit that a ^{saddle, a log,} ~~saddle~~, a pile of leaves, ~~etc~~ and even a stone are sometimes resorted to to supply its place.



The ~~lower~~ ~~upper~~ limbs should be moder-
ately bent in sleep, and a habit of
sleeping ^{constantly} upon the same side should be
carefully avoided. It will be useful
to sleep alternately ~~on~~ upon ~~both~~ ^{each}
side every other night, & still better
to ~~change the side~~ ^{upon each side} every night. ~~From~~
~~the neglect of this practice has often~~
~~the neglect of the effects of a contrary~~
~~practice have appeared in~~ been
attended with the most serious con-
sequences. ~~For~~ ^{During} the last seven years
of my life, I have met with ^{but} one
case of palsy in which the patients
did not acknowledge they had been in
the habit of sleeping only upon the
the same side. I sleep upon the



back should likewise be carefully avoided. ~~From~~ The night more attacks most frequently in this posture of the body. Persons who ~~die suddenly in the~~ ^{die suddenly in the} ~~are found~~ ^{night,} ~~their beds~~, are generally found upon their backs in the morning. —

4 When sleep is required, or indulged in during the day, it ~~should~~ ^{will} be best to take it in a sitting posture with the neck as erect as possible, and the ~~feet~~ lower limbs placed horizontally upon a chair. This will prevent the swelling of the feet. If a recumbent posture be preferred for a nap during the day, all the ligatures upon the body should be ~~loosed~~ ^{first unloosed}. ~~before unless this sleep is then~~
~~The body has from its~~ Unless this be done, sleep will be uneasy, and followed



not refreshing. The persons who assume
= many surveys into our woods, ^{and who} for a
while ~~refuse to take off their~~ ^{lie down in their} cloathes
when they sleep in the open air, ^{are} but
perceivers for the truth of this fact, ^{for which}
~~the want of sound and refreshing sleep~~
~~reason they are now obliged to~~
~~was to compel them to conform to~~
~~the practice of~~ take off their cloathes
to ^{lie} ~~sleep~~ in their blankets as they do
in their beds. This sleep then becomes
easy and ~~reviving~~ ^{restores} the strength
and activity of their bodies. — ^{sleep in} ~~the~~
horizontal posture of the body in ~~the~~
should be avoided for several hours
after a full meal whether it ^{be} a
dinner or a supper.

18

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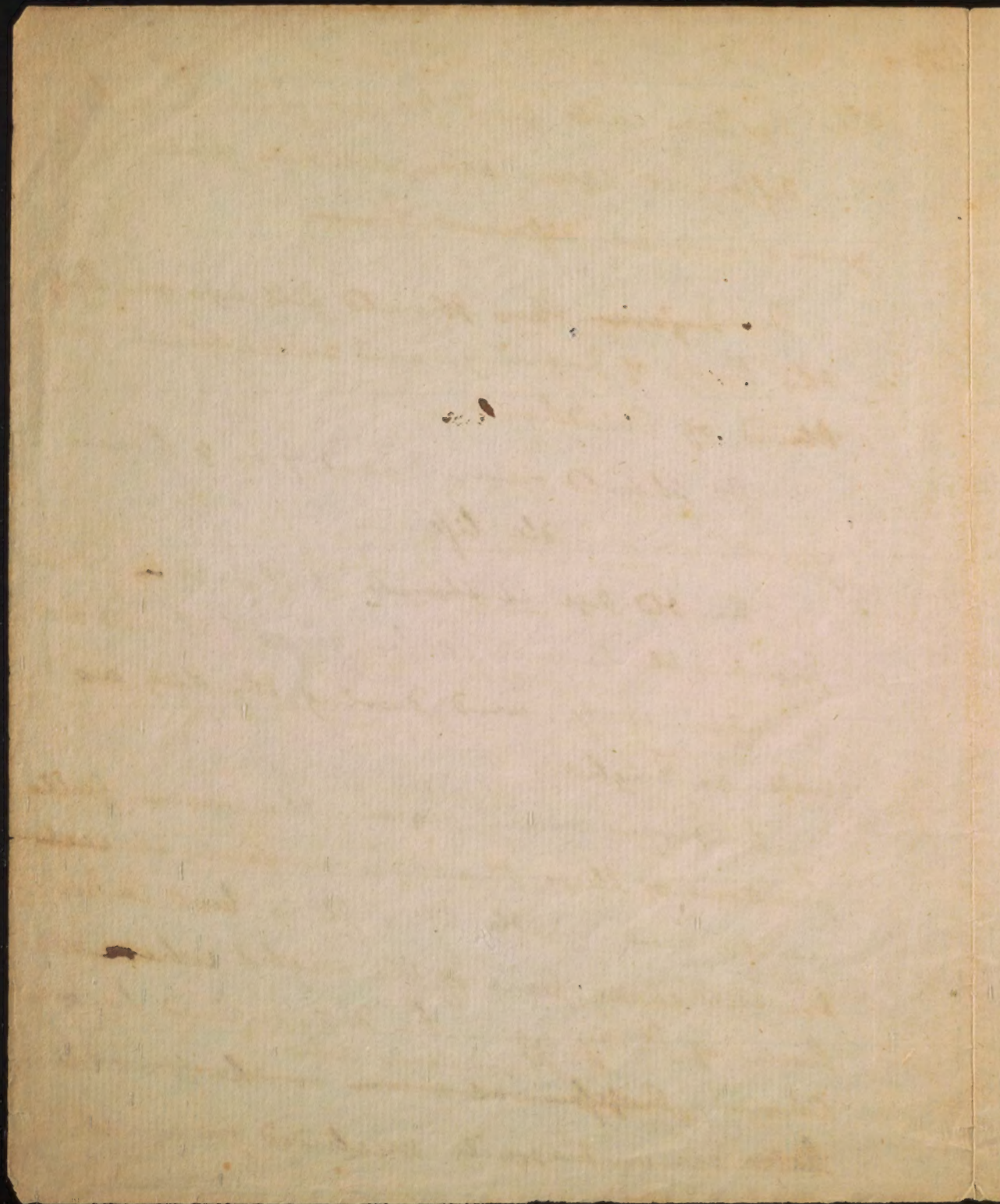
The System calls for different portions of Sleep in different ages, occupations & seasons of the year, ~~and at different times.~~

In ~~Infancy~~ Sleep should fill up one half the time of Infancy, and more than a third of Childhood.

It should never exceed 7 or 8 hours in Youth or middle life. —

In old age it ~~should~~ it should, be when practicable, be much longer. It should be taken early, and during the day as well as ^{during the} night.

Studious men require the ~~same~~ full portions of Sleep that are necessary in early youth and middle life. It is best taken in the early part of the night when the hours of Study can be determined by our Choice. ^{Physicians who} ~~Professional men in the limited~~ ~~States~~ are unhappily precluded from this



conformity of their systems to nature, but
~~they~~ suffer less ^{by} ~~from~~ neglecting it from
the ~~constant~~ constant exercise of their
bodies during the day.

Labourers of all kinds require seven
or eight hours sleep. —

~~During the day~~ In consequence of the
greater expenditure of the strength of the
body by the more ^{violent} active labors, or
more active exercises of winter, and
by the labors and heat of summer,
more sleep is necessary in those seasons
than in the spring and autumnal
months. —

